



## **Test Monitoring Center**

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November 4, 2008

To Participants of the ASTM International Heavy Duty Rating Workshop,

The 2008 ASTM International Heavy Duty Rating Workshop was held Monday, October 6, through Friday, October 10, 2008. This workshop was held under the auspices of ASTM International. ASTM International appreciates the importance of the rating activities to the lubricant testing industry and has committed to back those activities with their full support. The ASTM Test Monitoring Center is pleased to continue its role as coordinator for this workshop. Enclosed are the minutes for the workshop and a copy of all of the data generated. For those who met the necessary requirements, a certificate of participation is also enclosed.

We would like to take this opportunity to thank you for your participation in this workshop. It is the full participation of the entire rating community that allows the rating methods of Manuals 20 and 21 to be the vital industry tools that they are. The input of each and every rater is a valued component of that tool.

Sincerely,

Frank Farber & Jeff Clark  
Workshop Coordinators

Enclosure

**MINUTES**  
**ASTM INTERNATIONAL HEAVY DUTY RATING WORKSHOP**  
**SAN ANTONIO, TX**

October 6-10, 2008

Workshop Coordinators: Frank Farber, Michael Kasimirsky, Jeff Clark  
Deposit Rating Project Leader: Tony Barrera

**Sunday:**

- 12:30-13:30 Workshop Coordinators loaded truck and transported workshop equipment to hotel.  
13:30-18:00 Unload truck; set up booths, and computer network.

**Monday:**

- 08:00-09:00 Deposit Rating Project Leader, Tony Barrera directed parts setup.  
09:00-09:40 Frank Farber made introductory remarks, helped raters to connect to the workshop computer network, and did a brief demo of the data entry system. Rating forms and new, serialized rust/varnish/lacquer scales were distributed.  
09:30-11:30 Rating of “composite” calibration pistons CAL1A, CAL1B, and sludge SCAL1.  
11:30-12:15 Review of data from calibration exercise 1.  
12:15-13:00 Lunch.  
*Total ratings: 39*  
13:00-14:50 Rating of “composite” calibration pistons CAL2A, CAL2B, sludge SCAL2, and J rings.  
14:50-16:00 Review of data from calibration exercise 2.  
*Total ratings: 78*  
16:00-18:20 Rating of all parts. (started with 13 raters present, raters gradually left, preferring to pick up again in the morning.)  
*Total ratings: 89*  
18:20-18:50 Frank Farber and Jeff Clark computer cleanups and database backup

**Tuesday:**

- 7:00-12:00 Continuation of rating all parts (with C13 J Ring Carbon data review from 8:10-8:20).  
12:00-12:45 Lunch.  
*Total ratings: 177*  
12:45-16:15 Continuation of rating.  
16:15-18:00 Final data review.  
*Total ratings: 258*  
18:00-19:00 Cleanup/setup for session B.

**Wednesday:**

- 08:30-09:15 Frank Farber and Jeff Clark helped raters to connect to the workshop computer network, and did a brief demo of the data entry system. Rating forms and new, serialized rust/varnish/lacquer scales were distributed.
- 9:15-11:50 Rating of “composite” calibration pistons CAL1A, CAL1B, and sludge SCAL1.
- 11:50-12:10 Review of data from calibration exercise 1.
- 12:10-13:00 Lunch.  
*Total ratings: 311*
- 13:00-14:30 Continuation of data review of calibration exercise 1.
- 14:30-18:30 Rating of “composite” calibration pistons CAL2A & CAL2B, sludge SCAL2, and J rings.
- 17:30- 18:45 Data backup/daily cleanup.  
*Total ratings: 374*

**Thursday:**

- 08:00-08:45 Review of data from calibration exercise 1.
- 08:45-12:00 Rate all parts (with C13 J Ring Carbon data review from 11:00-11:10).
- 12:00-13:00 Lunch.
- 13:00-19:00 Continuation of rating. Most raters concluded their rating by 17:30, a few continued 19:00  
*Total ratings: 517*
- 17:00-18:00 Data backup/daily cleanup.

**Friday:**

- 07:00-10:40 Continuation of rating.
- 10:30-12:45 Final data review and discussion.  
*Total ratings: 562*
- 12:00-17:00 Frank Farber and Jeff Clark dismantled equipment, loaded the truck, and returned equipment to storage.

**DISCUSSIONS**

***Rating workshop format*** – Some time was spent discussing the format of the rating workshops. The use of data entry system and workshop computer network allowed for a much more thorough on-site review of the data and the group consensus was that this was adding value to the workshop. This workshop was the first workshop where rater breakdown data was presented during the data review session to investigate rater differences. The consensus desire was for the calibration exercises to be used to flush out any rating differences and training issues that may exist at the start of the workshop sessions. These issues could then be discussed and resolved within the group before the raters moved on to the remaining balance of parts. It was also noted that prior to the start of the calibration exercises, a quick review of carbon definitions would be helpful.

***Black phosphate-coated parts*** – Significant discussion centered on C13 piston undercrown rating. Specifically, it was raised that rating lacquer is problematic at best due to the color of the piston. Consensus was reached that only carbon should be rated on black phosphate-coated parts. Jim Gutzwiller, C13 Surveillance Panel Chair, was present and agreed to take this recommendation to the C13 Surveillance Panel. Jeff Clark, the TMC’s Heavy Duty engineer, also agreed to take this recommendation to the Mack and Cummins Surveillance Panels as well.

***Online rating/workshop computer network*** – The data entry system and computer network developed by Frank Farber continues to improve. Frank incorporated many of the comments provided by raters during the spring workshop. Sludge data entry in particular has been completely revamped to more closely mirror how the rating is generated. Overall response of the workshop participants was favorable.

***Use of ‘bracket’ rating*** – It was noted that some of the parts used at the workshop originated from tests that use a ‘bracket’ system for rating piston deposits. Consensus was reached that no bracketing be done during the rating exercises at the workshops, since bracketing is specific, not to actual deposit levels, but to applied use in a test.

***Contact Information for Manuals 20 & 21 and other rating scales and aids:***

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## **Notes on the Data**

Following is the data produced during the October 6-10, 2008, ASTM International Heavy Duty Rating Workshop.

The statistics presented include the data from all parts and all participants. It is important to have some knowledge of the raters involved when comparing results.

ASTM International strives to make this data useful to as broad a range of industry consumers as possible, however it is primarily intended to provide guidance to workshop participants. ASTM International endorses its use for no other purpose.

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL1A - CALIBRATION PISTON

Rated Values

\* Denotes parameters not used in Blue, Red, White &amp; Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF	
Viera, Ralph	77.08	17.38	0.08	16.09	1.58	75.00	
Yanchar, Paul	73.29	14.79	0.04	17.21	2.90	91.00	
Barrera, Tony	75.00	16.91	0.31	15.35	2.33	94.00	
Kobrinetz, Jack	73.53	15.16	0.10	14.97	3.10	91.00	
Hill, Howard	68.99	8.05	0.02	17.18	3.20	89.00	
Lowsky, John	47.85	9.30	0.10	13.87	2.68	85.00	
Radonich, Pete	63.95	16.31	0.10	14.95	1.83	61.00	
Hills, Barry	77.78	15.64	0.20	25.04	2.41	80.00	
Guarda, Waldyr	72.96	14.82	0.00	15.40	2.06	68.00	
Shoda, Ron	61.10	13.41	0.20	15.43	2.64	62.00	
Castillo, George	68.82	14.94	0.03	14.62	2.61	92.00	
Holland, Steve	72.14	12.84	0.10	15.15	2.17	78.00	
Sanchez, Art	74.27	12.05	0.10	24.53	2.16	70.00	
Clapperty, Leon	64.99	14.27	0.20	15.43	1.18	88.00	
Engelskirchen, Jim	72.94	15.17	0.20	16.86	1.78	90.00	
Foeking, Brian	71.17	17.35	0.01	15.50	2.64	80.00	
Zalewski, John	80.50	17.14	0.03	16.72	0.93	84.00	
Lonsway, Chris	60.70	15.27	0.30	16.38	0.81	95.00	
Trevino, Robert	72.18	13.77	0.28	15.29	1.50	94.00	
Caproni, David	58.10	11.99	0.10	14.90	1.78	70.00	
Rodriguez, Jesse	61.47	14.65	0.20	6.37	1.18	66.00	
Lopez, Frank	73.10	18.33	0.10	17.74	1.91	95.00	
Langford, Mike	75.20	19.27	0.30	14.38	1.46	89.00	
Greenland, Paul	72.33	12.08	0.20	15.99	2.43	90.00	
May, Marianne	71.68	15.88	0.05	14.72	2.25	96.00	
Avis, Steve	72.70	15.93	0.10	15.83	1.59	67.00	
Seiz, Ray	71.86	16.28	0.20	15.43	1.63	55.00	
Sherrod, Jeff	68.00	16.08	0.40	20.45	1.80	90.00	
Pansza, Mike	75.17	14.34	0.00	14.67	2.61	96.00	
Borland, Robert	58.75	11.83	0.50	15.12	2.50	56.00	
Smith, Russell	73.49	13.15	0.00	15.23	2.02	70.00	
Lee, Manuel	73.25	10.60	0.00	21.30	1.05	95.00	
Gutzwiller, Jim	75.49	13.10	0.23	15.52	1.82	97.00	
Richerson, Jay	77.32	10.79	1.00	7.72	3.05	63.00	
MAXIMUM	80.50	19.27	1.00	25.04	3.20	97.00	
MINIMUM	47.85	8.05	0.00	6.37	0.81	55.00	
RANGE(MAX-MIN)	32.650	11.220	1.000	18.670	2.390	42.000	
MEAN	70.210	14.379	0.170	15.922	2.047	81.235	
STANDARD DEVIATION	6.894	2.543	0.191	3.444	0.637	13.237	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL1A - CALIBRATION PISTON

CAL1A Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF
Viera, Ralph	1.00	1.18	-0.47	0.05	-0.73	-0.47
Yanchar, Paul	0.45	0.16	-0.68	0.37	1.34	0.74
Barrera, Tony	0.69	1.00	0.73	-0.17	0.44	0.96
Kobrinetz, Jack	0.48	0.31	-0.37	-0.28	1.65	0.74
Hill, Howard	-0.18	-2.49	-0.78	0.37	1.81	0.59
Lowsky, John	-3.24	-2.00	-0.37	-0.60	0.99	0.28
Radonich, Pete	-0.91	0.76	-0.37	-0.28	-0.34	-1.53
Hills, Barry	1.10	0.50	0.16	2.65	0.57	-0.09
Guarda, Waldyr	0.40	0.17	-0.89	-0.15	0.02	-1.00
Shoda, Ron	-1.32	-0.38	0.16	-0.14	0.93	-1.45
Castillo, George	-0.20	0.22	-0.73	-0.38	0.88	0.81
Holland, Steve	0.28	-0.61	-0.37	-0.22	0.19	-0.24
Sanchez, Art	0.59	-0.92	-0.37	2.50	0.18	-0.85
Clapperty, Leon	-0.76	-0.04	0.16	-0.14	-1.36	0.51
Engelskirchen, Jim	0.40	0.31	0.16	0.27	-0.42	0.66
Foeking, Brian	0.14	1.17	-0.84	-0.12	0.93	-0.09
Zalewski, John	1.49	1.09	-0.73	0.23	-1.75	0.21
Lonsway, Chris	-1.38	0.35	0.68	0.13	-1.94	1.04
Trevino, Robert	0.29	-0.24	0.58	-0.18	-0.86	0.96
Caproni, David	-1.76	-0.94	-0.37	-0.30	-0.42	-0.85
Rodriguez, Jesse	-1.27	0.11	0.16	-2.77	-1.36	-1.15
Lopez, Frank	0.42	1.55	-0.37	0.53	-0.21	1.04
Langford, Mike	0.72	1.92	0.68	-0.45	-0.92	0.59
Greenland, Paul	0.31	-0.90	0.16	0.02	0.60	0.66
May, Marianne	0.21	0.59	-0.63	-0.35	0.32	1.12
Avis, Steve	0.36	0.61	-0.37	-0.03	-0.72	-1.08
Seiz, Ray	0.24	0.75	0.16	-0.14	-0.65	-1.98
Sherrod, Jeff	-0.32	0.67	1.20	1.31	-0.39	0.66
Pansza, Mike	0.72	-0.02	-0.89	-0.36	0.88	1.12
Borland, Robert	-1.66	-1.00	1.73	-0.23	0.71	-1.91
Smith, Russell	0.48	-0.48	-0.89	-0.20	-0.04	-0.85
Lee, Manuel	0.44	-1.49	-0.89	1.56	-1.57	1.04
Gutzwiller, Jim	0.77	-0.50	0.31	-0.12	-0.36	1.19
Richerson, Jay	1.03	-1.41	4.34	-2.38	1.58	-1.38
MAXIMUM	-3.24	-2.49	4.34	-2.77	-1.94	-1.98
MINIMUM	0.14	-0.02	0.16	0.02	0.02	-0.09
RANGE(MAX-MIN)	-3.383	-2.473	4.182	-2.793	-1.963	-1.889
MEAN	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL1B - CALIBRATION PISTON

Rated Values

\* Denotes parameters not used in Blue, Red, White &amp; Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF	
Sanchez, Art	62.60	29.98	0.96	24.17	0.70	59.00	
Yanchar, Paul	52.65	16.54	1.13	13.96	2.51	54.00	
Kobrinetz, Jack	52.91	18.04	1.52	12.89	2.04	51.00	
Hill, Howard	48.38	14.44	1.20	15.95	2.45	63.00	
Barrera, Tony	55.88	17.98	1.76	13.23	2.01	59.00	
Hills, Barry	54.06	20.66	1.20	21.05	1.99	67.00	
Radonich, Pete	54.66	17.90	1.43	12.00	1.15	45.00	
Lowsky, John	42.60	17.20	0.95	10.27	2.20	55.00	
Guarda, Waldyr	51.07	15.65	1.66	13.82	2.31	52.00	
Viera, Ralph	53.31	19.11	1.56	11.68	1.28	58.00	
Castillo, George	51.90	19.73	2.10	12.16	2.52	59.00	
Shoda, Ron	51.93	17.00	1.84	20.18	1.91	46.00	
Holland, Steve	54.05	19.01	1.45	11.90	1.91	58.00	
Engelskirchen, Jim	57.53	18.30	1.30	12.31	2.05	57.00	
Clapperty, Leon	50.02	18.59	0.95	11.90	1.10	58.00	
Borland, Robert	47.67	14.21	1.27	14.12	1.55	38.00	
Zalewski, John	70.15	19.95	1.92	13.59	1.61	58.00	
Trevino, Robert	49.43	18.24	1.31	17.57	1.84	49.00	
May, Marianne	53.69	18.07	1.08	13.76	2.00	57.00	
Foecking, Brian	48.57	18.86	1.73	12.90	2.52	44.00	
Caproni, David	50.40	11.93	1.15	11.23	1.72	34.00	
Langford, Mike	53.11	17.85	1.14	13.04	1.14	60.00	
Lopez, Frank	57.31	19.49	1.54	14.51	1.56	48.00	
Greenland, Paul	54.32	17.44	1.72	12.71	1.93	57.00	
Avis, Steve	54.59	14.40	1.15	13.13	1.60	62.00	
Sherrod, Jeff	48.75	16.85	1.34	10.00	1.35	55.00	
Rodriguez, Jesse	53.62	17.66	1.83	14.07	0.79	45.00	
Seiz, Ray	40.30	15.42	1.18	19.92	1.69	66.00	
Lonsway, Chris	47.75	20.66	0.83	17.58	0.68	39.00	
Pansza, Mike	55.13	13.12	1.44	11.60	2.51	46.00	
Lee, Manuel	83.24	62.50	1.30	16.51	1.60	40.00	
Smith, Russell	61.14	18.85	1.40	12.18	1.45	46.00	
Gutzwiller, Jim	60.17	14.24	1.73	13.65	1.52	64.00	
Richerson, Jay	62.22	14.69	2.71	10.30	3.23	42.75	
MAXIMUM	83.24	62.50	2.71	24.17	3.23	67.00	
MINIMUM	40.30	11.93	0.83	10.00	0.68	34.00	
RANGE(MAX-MIN)	42.940	50.570	1.880	14.170	2.550	33.000	
MEAN	54.268	18.958	1.435	14.113	1.777	52.699	
STANDARD DEVIATION	7.647	8.282	0.384	3.273	0.576	8.592	



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL1B - CALIBRATION PISTON

CAL1B Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF
Sanchez, Art	1.09	1.33	-1.24	3.07	-1.87	0.73
Yanchar, Paul	-0.21	-0.29	-0.79	-0.05	1.27	0.15
Kobrinetz, Jack	-0.18	-0.11	0.22	-0.37	0.46	-0.20
Hill, Howard	-0.77	-0.55	-0.61	0.56	1.17	1.20
Barrera, Tony	0.21	-0.12	0.85	-0.27	0.40	0.73
Hills, Barry	-0.03	0.21	-0.61	2.12	0.37	1.66
Radonich, Pete	0.05	-0.13	-0.01	-0.65	-1.09	-0.90
Lowsky, John	-1.53	-0.21	-1.26	-1.17	0.73	0.27
Guarda, Waldyr	-0.42	-0.40	0.59	-0.09	0.92	-0.08
Viera, Ralph	-0.13	0.02	0.33	-0.74	-0.86	0.62
Castillo, George	-0.31	0.09	1.73	-0.60	1.29	0.73
Shoda, Ron	-0.31	-0.24	1.06	1.85	0.23	-0.78
Holland, Steve	-0.03	0.01	0.04	-0.68	0.23	0.62
Engelskirchen, Jim	0.43	-0.08	-0.35	-0.55	0.47	0.50
Clapperty, Leon	-0.56	-0.04	-1.26	-0.68	-1.17	0.62
Borland, Robert	-0.86	-0.57	-0.43	0.00	-0.39	-1.71
Zalewski, John	2.08	0.12	1.26	-0.16	-0.29	0.62
Trevino, Robert	-0.63	-0.09	-0.32	1.06	0.11	-0.43
May, Marianne	-0.08	-0.11	-0.92	-0.11	0.39	0.50
Foecking, Brian	-0.75	-0.01	0.77	-0.37	1.29	-1.01
Caproni, David	-0.51	-0.85	-0.74	-0.88	-0.10	-2.18
Langford, Mike	-0.15	-0.13	-0.77	-0.33	-1.11	0.85
Lopez, Frank	0.40	0.06	0.27	0.12	-0.38	-0.55
Greenland, Paul	0.01	-0.18	0.74	-0.43	0.27	0.50
Avis, Steve	0.04	-0.55	-0.74	-0.30	-0.31	1.08
Sherrod, Jeff	-0.72	-0.25	-0.25	-1.26	-0.74	0.27
Rodriguez, Jesse	-0.08	-0.16	1.03	-0.01	-1.71	-0.90
Seiz, Ray	-1.83	-0.43	-0.66	1.77	-0.15	1.55
Lonsway, Chris	-0.85	0.21	-1.58	1.06	-1.90	-1.59
Pansza, Mike	0.11	-0.70	0.01	-0.77	1.27	-0.78
Lee, Manuel	3.79	5.26	-0.35	0.73	-0.31	-1.48
Smith, Russell	0.90	-0.01	-0.09	-0.59	-0.57	-0.78
Gutzwiller, Jim	0.77	-0.57	0.77	-0.14	-0.45	1.32
Richerson, Jay	1.04	-0.52	3.32	-1.17	2.52	-1.16
MAXIMUM	3.79	5.26	3.32	3.07	2.52	-2.18
MINIMUM	0.01	0.01	-0.01	0.00	-0.10	-0.08
RANGE(MAX-MIN)	3.782	5.251	3.334	3.071	2.620	-2.095
MEAN	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL2A - CALIBRATION PISTON

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF	
Kobrinetz, Jack	35.73	10.63	0.50	11.84	3.31	71.00	
Lowsky, John	29.91	10.84	0.28	8.45	3.39	75.00	
Barrera, Tony	35.47	11.80	0.40	12.29	4.11	73.00	
Hills, Barry	43.03	11.22	0.20	18.13	3.92	80.00	
Radonich, Pete	34.58	10.29	0.10	11.20	3.88	74.00	
Castillo, George	32.33	11.13	0.10	8.42	4.21	79.00	
Yanchar, Paul	33.74	11.42	0.19	11.18	4.48	65.00	
Sanchez, Art	30.90	10.40	0.30	9.29	3.26	65.00	
Hill, Howard	34.80	9.77	1.08	12.22	5.20	74.00	
Guarda, Waldyr	31.98	10.26	0.20	12.80	4.84	65.00	
Viera, Ralph	31.36	12.12	0.23	11.12	4.05	76.00	
Holland, Steve	30.73	10.69	0.16	10.00	4.02	68.00	
Shoda, Ron	38.12	11.12	0.25	11.77	4.34	76.00	
Clapperty, Leon	32.67	9.99	0.22	12.80	2.85	75.00	
Zalewski, John	43.75	10.64	0.26	11.98	5.47	81.00	
Foeking, Brian	32.10	10.84	0.08	9.99	3.59	57.00	
Sherrod, Jeff	40.80	10.40	0.40	10.81	3.63	70.00	
Langford, Mike	40.90	10.89	0.40	10.80	5.43	58.00	
Caproni, David	32.25	10.55	0.20	7.68	4.04	60.00	
Lopez, Frank	43.72	10.73	0.39	13.81	4.53	53.00	
Greenland, Paul	35.60	10.81	0.30	9.63	4.50	79.00	
Lonsway, Chris	19.43	11.53	0.11	12.93	4.17	53.00	
Rodriguez, Jesse	39.24	11.23	0.10	12.31	3.73	64.00	
Pansza, Mike	33.13	10.48	0.00	9.45	3.78	71.00	
Trevino, Robert	40.24	9.86	0.15	12.46	5.58	81.00	
Avis, Steve	32.10	12.31	0.46	8.99	4.58	65.00	
Smith, Russell	37.86	12.94	0.53	8.04	3.80	54.00	
Seiz, Ray	38.69	9.02	0.20	12.30	4.03	85.00	
May, Marianne	38.92	9.87	0.31	13.34	4.27	76.00	
Lee, Manuel	33.62	11.51	0.32	11.92	2.83	75.00	
Richerson, Jay	45.12	9.51	0.64	10.10	4.94	78.00	
Engelskirchen, Jim	33.60	11.15	0.30	15.06	4.42	53.00	
Borland, Robert	46.10	10.44	0.20	10.14	4.72	60.00	
Gutzwiller, Jim	39.52	15.91	0.11	13.13	4.69	74.00	
MAXIMUM	46.10	15.91	1.08	18.13	5.58	85.00	
MINIMUM	19.43	9.02	0.00	7.68	2.83	53.00	
RANGE(MAX-MIN)	26.670	6.890	1.080	10.450	2.750	32.000	
MEAN	35.942	10.950	0.284	11.364	4.194	69.500	
STANDARD DEVIATION	5.412	1.188	0.200	2.137	0.687	9.215	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL2A - CALIBRATION PISTON

CAL2A Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF
Kobrinetz, Jack	-0.04	-0.27	1.08	0.22	-1.29	0.16
Lowsky, John	-1.11	-0.09	-0.02	-1.36	-1.17	0.60
Barrera, Tony	-0.09	0.72	0.58	0.43	-0.12	0.38
Hills, Barry	1.31	0.23	-0.42	3.17	-0.40	1.14
Radonich, Pete	-0.25	-0.56	-0.92	-0.08	-0.46	0.49
Castillo, George	-0.67	0.15	-0.92	-1.38	0.02	1.03
Yanchar, Paul	-0.41	0.40	-0.47	-0.09	0.42	-0.49
Sanchez, Art	-0.93	-0.46	0.08	-0.97	-1.36	-0.49
Hill, Howard	-0.21	-0.99	3.97	0.40	1.46	0.49
Guarda, Waldyr	-0.73	-0.58	-0.42	0.67	0.94	-0.49
Viera, Ralph	-0.85	0.98	-0.27	-0.11	-0.21	0.71
Holland, Steve	-0.96	-0.22	-0.62	-0.64	-0.25	-0.16
Shoda, Ron	0.40	0.14	-0.17	0.19	0.21	0.71
Clapperty, Leon	-0.60	-0.81	-0.32	0.67	-1.96	0.60
Zalewski, John	1.44	-0.26	-0.12	0.29	1.86	1.25
Foecking, Brian	-0.71	-0.09	-1.02	-0.64	-0.88	-1.36
Sherrod, Jeff	0.90	-0.46	0.58	-0.26	-0.82	0.05
Langford, Mike	0.92	-0.05	0.58	-0.26	1.80	-1.25
Caproni, David	-0.68	-0.34	-0.42	-1.72	-0.22	-1.03
Lopez, Frank	1.44	-0.19	0.53	1.14	0.49	-1.79
Greenland, Paul	-0.06	-0.12	0.08	-0.81	0.45	1.03
Lonsway, Chris	-3.05	0.49	-0.87	0.73	-0.03	-1.79
Rodriguez, Jesse	0.61	0.24	-0.92	0.44	-0.68	-0.60
Pansza, Mike	-0.52	-0.40	-1.42	-0.90	-0.60	0.16
Trevino, Robert	0.79	-0.92	-0.67	0.51	2.02	1.25
Avis, Steve	-0.71	1.14	0.88	-1.11	0.56	-0.49
Smith, Russell	0.35	1.67	1.23	-1.56	-0.57	-1.68
Seiz, Ray	0.51	-1.62	-0.42	0.44	-0.24	1.68
May, Marianne	0.55	-0.91	0.13	0.92	0.11	0.71
Lee, Manuel	-0.43	0.47	0.18	0.26	-1.99	0.60
Richerson, Jay	1.70	-1.21	1.78	-0.59	1.09	0.92
Engelskirchen, Jim	-0.43	0.17	0.08	1.73	0.33	-1.79
Borland, Robert	1.88	-0.43	-0.42	-0.57	0.77	-1.03
Gutzwiller, Jim	0.66	4.17	-0.87	0.83	0.72	0.49
MAXIMUM	-3.05	4.17	3.97	3.17	2.02	-1.79
MINIMUM	-0.04	-0.05	-0.02	-0.08	0.02	0.05
RANGE(MAX-MIN)	-3.012	4.224	3.995	3.244	1.994	-1.845
MEAN	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL2B - CALIBRATION PISTON

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF	
Kobrinetz, Jack	53.29	5.51	0.10	18.98	3.43	68.00	
Viera, Ralph	54.00	6.58	0.08	16.06	2.68	73.00	
Sanchez, Art	57.55	3.29	0.10	12.31	2.88	68.00	
Barrera, Tony	55.00	5.47	0.09	17.68	2.88	65.00	
Hills, Barry	62.25	3.92	0.20	20.51	3.26	70.00	
Yanchar, Paul	55.35	6.39	0.02	19.07	3.74	70.00	
Lowsky, John	43.55	5.03	0.10	17.83	3.03	80.00	
Radonich, Pete	59.12	7.36	0.05	18.93	3.04	70.00	
Castillo, George	54.30	6.80	0.05	13.80	3.87	72.00	
Hill, Howard	57.66	4.72	0.02	18.65	3.43	74.00	
Guarda, Waldyr	67.25	5.66	0.20	18.61	5.29	84.00	
Holland, Steve	59.75	6.04	0.10	14.18	3.28	71.00	
Shoda, Ron	52.32	5.37	0.20	18.96	4.67	69.00	
Clapperty, Leon	50.50	7.26	0.18	17.48	2.40	74.00	
Zalewski, John	65.50	7.20	0.00	19.55	3.94	78.00	
Foecking, Brian	41.16	5.63	0.01	15.18	3.82	66.00	
Sherrod, Jeff	61.25	3.28	0.40	18.25	2.23	72.00	
Langford, Mike	53.00	5.50	0.30	17.26	3.74	75.00	
Caproni, David	59.50	4.14	0.10	14.02	3.55	75.00	
Borland, Robert	43.05	4.02	0.25	17.86	3.66	65.00	
Greenland, Paul	60.25	5.55	0.20	18.41	3.77	69.00	
Rodriguez, Jesse	65.25	6.45	0.10	17.18	3.77	67.00	
May, Marianne	59.55	7.46	0.00	18.70	3.55	71.00	
Lopez, Frank	60.50	6.58	0.10	22.06	2.65	71.00	
Pansza, Mike	59.56	5.95	0.00	17.77	3.32	78.00	
Lonsway, Chris	34.54	5.86	0.10	17.87	3.44	50.00	
Trevino, Robert	57.06	6.55	0.04	17.31	2.64	74.00	
Avis, Steve	60.50	6.29	0.10	19.24	3.23	72.00	
Smith, Russell	61.00	4.62	0.50	10.66	2.48	57.00	
Seiz, Ray	58.77	7.10	0.20	19.29	3.52	88.00	
Lee, Manuel	63.64	4.29	0.00	15.81	2.04	65.00	
Richerson, Jay	65.24	5.59	0.25	15.69	3.55	76.00	
Engelskirchen, Jim	66.25	8.42	0.20	18.39	3.14	64.00	
Gutzwiller, Jim	69.19	5.98	0.10	15.20	4.10	76.00	
MAXIMUM	69.19	8.42	0.50	22.06	5.29	88.00	
MINIMUM	34.54	3.28	0.00	10.66	2.04	50.00	
RANGE(MAX-MIN)	34.650	5.140	0.500	11.400	3.250	38.000	
MEAN	57.254	5.761	0.131	17.316	3.354	71.088	
STANDARD DEVIATION	7.724	1.229	0.115	2.363	0.666	6.999	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= CAL2B - CALIBRATION PISTON

CAL2B Yi Values

\* Denotes parameters not used in Blue, Red, White &amp; Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	TGF	
Kobrinetz, Jack	-0.51	-0.20	-0.27	0.70	0.11	-0.44	
Viera, Ralph	-0.42	0.67	-0.44	-0.53	-1.01	0.27	
Sanchez, Art	0.04	-2.01	-0.27	-2.12	-0.71	-0.44	
Barrera, Tony	-0.29	-0.24	-0.35	0.15	-0.71	-0.87	
Hills, Barry	0.65	-1.50	0.60	1.35	-0.14	-0.16	
Yanchar, Paul	-0.25	0.51	-0.96	0.74	0.58	-0.16	
Lowsky, John	-1.77	-0.59	-0.27	0.22	-0.49	1.27	
Radonich, Pete	0.24	1.30	-0.70	0.68	-0.47	-0.16	
Castillo, George	-0.38	0.85	-0.70	-1.49	0.78	0.13	
Hill, Howard	0.05	-0.85	-0.96	0.56	0.11	0.42	
Guarda, Waldyr	1.29	-0.08	0.60	0.55	2.91	1.84	
Holland, Steve	0.32	0.23	-0.27	-1.33	-0.11	-0.01	
Shoda, Ron	-0.64	-0.32	0.60	0.70	1.98	-0.30	
Clapperty, Leon	-0.87	1.22	0.43	0.07	-1.43	0.42	
Zalewski, John	1.07	1.17	-1.13	0.95	0.88	0.99	
Foecking, Brian	-2.08	-0.11	-1.04	-0.90	0.70	-0.73	
Sherrod, Jeff	0.52	-2.02	2.33	0.40	-1.69	0.13	
Langford, Mike	-0.55	-0.21	1.47	-0.02	0.58	0.56	
Caproni, David	0.29	-1.32	-0.27	-1.40	0.30	0.56	
Borland, Robert	-1.84	-1.42	1.03	0.23	0.46	-0.87	
Greenland, Paul	0.39	-0.17	0.60	0.46	0.63	-0.30	
Rodriguez, Jesse	1.04	0.56	-0.27	-0.06	0.63	-0.58	
May, Marianne	0.30	1.38	-1.13	0.59	0.30	-0.01	
Lopez, Frank	0.42	0.67	-0.27	2.01	-1.06	-0.01	
Pansza, Mike	0.30	0.15	-1.13	0.19	-0.05	0.99	
Lonsway, Chris	-2.94	0.08	-0.27	0.23	0.13	-3.01	
Trevino, Robert	-0.03	0.64	-0.78	0.00	-1.07	0.42	
Avis, Steve	0.42	0.43	-0.27	0.81	-0.19	0.13	
Smith, Russell	0.48	-0.93	3.20	-2.82	-1.31	-2.01	
Seiz, Ray	0.20	1.09	0.60	0.84	0.25	2.42	
Lee, Manuel	0.83	-1.20	-1.13	-0.64	-1.97	-0.87	
Richerson, Jay	1.03	-0.14	1.03	-0.69	0.30	0.70	
Engelskirchen, Jim	1.16	2.16	0.60	0.45	-0.32	-1.01	
Gutzwiller, Jim	1.55	0.18	-0.27	-0.90	1.12	0.70	
MAXIMUM	-2.94	2.16	3.20	-2.82	2.91	-3.01	
MINIMUM	-0.03	0.08	-0.27	0.00	-0.05	-0.01	
RANGE(MAX-MIN)	-2.915	2.083	3.466	-2.814	2.960	-3.000	
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= A1 - SQUARE CUT

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF
Hills, Barry	63.38	12.11	0.10	0.10	18.83	1.06	1.16	64.00
Castillo, George	57.12	11.86	0.03	0.02	16.24	1.81	1.59	60.00
Kobrinetz, Jack	55.27	13.18	0.13	0.13	17.72	0.75	0.77	60.00
Viera, Ralph	61.03	13.69	0.28	0.15	17.30	1.13	1.14	62.00
Yanchar, Paul	58.83	12.54	0.08	0.05	19.22	0.93	0.80	59.00
Barrera, Tony	60.07	12.46	0.03	0.02	24.18	0.96	0.61	63.00
Guarda, Waldyr	65.75	16.47	0.30	0.40	20.36	1.19	1.00	61.00
Engelskirchen, Jim	63.09	11.86	0.20	0.10	16.80	1.19	1.06	63.00
May, Marianne	56.22	12.38	0.24	0.24	25.72	0.80	0.81	62.00
Lopez, Frank	66.71	12.24	0.14	0.10	18.75	1.36	1.27	62.00
Clapperty, Leon	53.53	10.64	0.24	0.20	15.19	0.82	0.74	62.00
Sherrod, Jeff	65.33	10.92	0.70	0.30	16.24	1.20	1.27	65.00
Gutzwiller, Jim	71.20	11.15	0.04	0.02	25.58	1.16	1.00	73.00
Seiz, Ray	65.63	11.59	0.20	0.10	23.57	0.79	0.92	62.00
Avis, Steve	63.57	12.72	0.30	0.20	20.28	1.10	1.25	65.00
Foecking, Brian	59.10	11.95	0.02	0.02	15.84	0.93	0.67	58.00
Lonsway, Chris	59.74	12.09	0.10	0.10	18.16	0.89	0.77	62.00
Zalewski, John	61.86	15.30	0.10	0.10	49.69	2.75	2.49	75.00
MAXIMUM	71.20	16.47	0.70	0.40	49.69	2.75	2.49	75.00
MINIMUM	53.53	10.64	0.02	0.02	15.19	0.75	0.61	58.00
RANGE(MAX-MIN)	17.670	5.830	0.680	0.380	34.500	2.000	1.880	17.000
MEAN	61.524	12.508	0.179	0.131	21.093	1.157	1.073	63.222
STANDARD DEVIATION	4.532	1.448	0.161	0.104	7.869	0.471	0.437	4.346

Part ID= A1 - SQUARE CUT

A1 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF
Hills, Barry	0.41	-0.28	-0.49	-0.29	-0.29	-0.21	0.20	0.18
Castillo, George	-0.97	-0.45	-0.93	-1.06	-0.62	1.39	1.18	-0.74
Kobrinetz, Jack	-1.38	0.46	-0.31	-0.01	-0.43	-0.86	-0.69	-0.74
Viera, Ralph	-0.11	0.82	0.62	0.19	-0.48	-0.06	0.15	-0.28
Yanchar, Paul	-0.59	0.02	-0.62	-0.77	-0.24	-0.48	-0.63	-0.97
Barrera, Tony	-0.32	-0.03	-0.93	-1.06	0.39	-0.42	-1.06	-0.05
Guarda, Waldyr	0.93	2.74	0.75	2.59	-0.09	0.07	-0.17	-0.51
Engelskirchen, Jim	0.35	-0.45	0.13	-0.29	-0.55	0.07	-0.03	-0.05
May, Marianne	-1.17	-0.09	0.38	1.05	0.59	-0.76	-0.60	-0.28
Lopez, Frank	1.14	-0.19	-0.25	-0.29	-0.30	0.43	0.45	-0.28
Clapperty, Leon	-1.76	-1.29	0.38	0.67	-0.75	-0.71	-0.76	-0.28
Sherrod, Jeff	0.84	-1.10	3.23	1.63	-0.62	0.09	0.45	0.41
Gutzwiller, Jim	2.14	-0.94	-0.87	-1.06	0.57	0.01	-0.17	2.25
Seiz, Ray	0.91	-0.63	0.13	-0.29	0.31	-0.78	-0.35	-0.28
Avis, Steve	0.45	0.15	0.75	0.67	-0.10	-0.12	0.40	0.41
Foecking, Brian	-0.53	-0.39	-0.99	-1.06	-0.67	-0.48	-0.92	-1.20
Lonsway, Chris	-0.39	-0.29	-0.49	-0.29	-0.37	-0.57	-0.69	-0.28
Zalewski, John	0.07	1.93	-0.49	-0.29	3.63	3.38	3.24	2.71
MAXIMUM	2.14	2.74	3.23	2.59	3.63	3.38	3.24	2.71
MINIMUM	0.07	0.02	0.13	-0.01	-0.09	0.01	-0.03	-0.05
RANGE(MAX-MIN)	2.061	2.713	3.105	2.593	3.727	3.373	3.273	2.761
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= A2 - KEYSTONE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	USTOT	L1TOT	L2TOT	L3TOT	UCTOT	TGF	2ndGF	TLHC
Kobrinetz, Jack	25.00	14.34	0.75	0.46	3.79	46.60	0.99	1.19	12.00	7.00	0.00
Hills, Barry	25.00	14.46	0.75	0.80	4.87	49.68	1.33	0.55	16.00	14.00	0.00
Castillo, George	25.00	11.50	2.31	1.68	5.35	33.86	2.30	0.88	7.00	9.00	0.00
Viera, Ralph	25.75	12.69	1.30	1.02	4.32	41.67	1.34	1.64	12.00	8.00	0.00
Yanchar, Paul	25.00	16.53	1.06	1.18	4.38	39.56	1.56	1.20	8.00	9.00	0.00
May, Marianne	25.00	15.30	0.68	0.70	2.17	37.60	1.16	0.85	7.00	4.00	0.00
Engelskirchen, Jim	24.78	12.36	0.56	0.51	2.83	48.54	0.85	0.50	1.00	6.00	0.00
Lopez, Frank	25.00	16.02	1.35	1.12	4.75	44.15	1.59	1.48	18.00	5.00	0.00
Clapperty, Leon	24.76	12.72	0.75	0.55	3.36	29.32	0.87	0.60	20.00	3.00	0.00
Zalewski, John	25.00	15.97	2.45	1.75	4.75	54.24	2.34	1.84	7.00	6.00	0.00
Foecking, Brian	25.00	13.79	0.69	0.87	3.11	41.63	0.67	0.95	5.00	3.00	0.00
MAXIMUM	25.75	16.53	2.45	1.75	5.35	54.24	2.34	1.84	20.00	14.00	0.00
MINIMUM	24.76	11.50	0.56	0.46	2.17	29.32	0.67	0.50	1.00	3.00	0.00
RANGE(MAX-MIN)	0.990	5.030	1.890	1.290	3.180	24.920	1.670	1.340	19.000	11.000	0.000
MEAN	25.026	14.153	1.150	0.967	3.971	42.441	1.364	1.062	10.273	6.727	0.000
STANDARD DEVIATION	0.257	1.687	0.661	0.441	0.995	7.265	0.556	0.451	5.867	3.228	0.000

Part ID= A2 - KEYSTONE

A2 Y1 Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	USTOT	L1TOT	L2TOT	L3TOT	UCTOT	TGF	2ndGF	TLHC
Kobrinetz, Jack	-0.10	0.11	-0.61	-1.15	-0.18	0.57	-0.67	0.28	0.29	0.08	0.00
Hills, Barry	-0.10	0.18	-0.61	-0.38	0.90	1.00	-0.06	-1.14	0.98	2.25	0.00
Castillo, George	-0.10	-1.57	1.76	1.62	1.39	-1.18	1.68	-0.40	-0.56	0.70	0.00
Viera, Ralph	2.81	-0.87	0.23	0.12	0.35	-0.11	-0.04	1.28	0.29	0.39	0.00
Yanchar, Paul	-0.10	1.41	-0.14	0.48	0.41	-0.40	0.35	0.31	-0.39	0.70	0.00
May, Marianne	-0.10	0.68	-0.71	-0.61	-1.81	-0.67	-0.37	-0.47	-0.56	-0.85	0.00
Engelskirchen, Jim	-0.96	-1.06	-0.89	-1.04	-1.15	0.84	-0.92	-1.25	-1.58	-0.23	0.00
Lopez, Frank	-0.10	1.11	0.30	0.35	0.78	0.24	0.41	0.93	1.32	-0.54	0.00
Clapperty, Leon	-1.04	-0.85	-0.61	-0.95	-0.61	-1.81	-0.89	-1.02	1.66	-1.15	0.00
Zalewski, John	-0.10	1.08	1.97	1.78	0.78	1.62	1.76	1.73	-0.56	-0.23	0.00
Foecking, Brian	-0.10	-0.22	-0.70	-0.22	-0.87	-0.11	-1.25	-0.25	-0.90	-1.15	0.00
MAXIMUM	2.81	-1.57	1.97	1.78	-1.81	-1.81	1.76	1.73	1.66	2.25	0.00
MINIMUM	-0.10	0.11	-0.14	0.12	-0.18	-0.11	-0.04	-0.25	0.29	0.08	0.00
RANGE(MAX-MIN)	2.918	-1.683	2.104	1.657	-1.628	-1.700	1.799	1.975	1.364	2.169	0.000
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= A3 - C13-STYLE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	SGF	AGF	TLHC	
Kobrinetz, Jack	40.75	4.20	2.60	15.55	31.16	6.05	1.50	31.00	1.00	30.00	6.00	
Hills, Barry	41.15	5.54	2.20	17.23	31.68	6.20	1.06	39.00	2.00	40.00	8.00	
Castillo, George	38.07	5.82	3.50	15.72	26.23	7.38	2.21	32.00	1.00	31.00	7.00	
Viera, Ralph	38.70	5.27	2.64	17.45	28.46	6.77	2.38	31.00	1.00	33.00	8.00	
Yanchar, Paul	33.62	6.69	2.63	15.51	28.17	6.86	1.30	22.00	1.00	28.00	5.00	
May, Marianne	39.33	5.78	3.13	18.45	33.47	7.51	1.62	31.00	1.00	20.00	8.00	
Lopez, Frank	34.24	4.01	1.16	19.35	29.95	5.71	1.40	19.00	0.00	19.00	10.00	
Avis, Steve	35.01	5.36	3.16	15.60	30.13	7.19	1.10	35.00	1.00	35.00	7.00	
Engelskirchen, Jim	33.42	4.29	0.34	15.45	37.95	6.25	0.80	10.00	0.00	20.00	7.00	
Clapperty, Leon	37.95	5.80	0.94	17.89	24.13	5.68	1.02	29.00	1.00	32.00	9.00	
Gutzwiller, Jim	43.06	5.41	1.12	19.91	42.24	5.90	1.71	37.00	0.00	27.00	12.00	
MAXIMUM	43.06	6.69	3.50	19.91	42.24	7.51	2.38	39.00	2.00	40.00	12.00	
MINIMUM	33.42	4.01	0.34	15.45	24.13	5.68	0.80	10.00	0.00	19.00	5.00	
RANGE(MAX-MIN)	9.640	2.680	3.160	4.460	18.110	1.830	1.580	29.000	2.000	21.000	7.000	
MEAN	37.755	5.288	2.129	17.101	31.234	6.500	1.464	28.727	0.818	28.636	7.909	
STANDARD DEVIATION	3.285	0.815	1.061	1.654	5.166	0.670	0.495	8.545	0.603	6.727	1.921	

Part ID= A3 - C13-STYLE

A3 Y1 Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	SGF	AGF	TLHC	
Kobrinetz, Jack	0.91	-1.33	0.44	-0.94	-0.01	-0.67	0.07	0.27	0.30	0.20	-0.99	
Hills, Barry	1.03	0.31	0.07	0.08	0.09	-0.45	-0.82	1.20	1.96	1.69	0.05	
Castillo, George	0.10	0.65	1.29	-0.84	-0.97	1.31	1.51	0.38	0.30	0.35	-0.47	
Viera, Ralph	0.29	-0.02	0.48	0.21	-0.54	0.40	1.85	0.27	0.30	0.65	0.05	
Yanchar, Paul	-1.26	1.72	0.47	-0.96	-0.59	0.54	-0.33	-0.79	0.30	-0.09	-1.51	
May, Marianne	0.48	0.60	0.94	0.82	0.43	1.51	0.32	0.27	0.30	-1.28	0.05	
Lopez, Frank	-1.07	-1.57	-0.91	1.36	-0.25	-1.18	-0.13	-1.14	-1.36	-1.43	1.09	
Avis, Steve	-0.84	0.09	0.97	-0.91	-0.21	1.03	-0.74	0.73	0.30	0.95	-0.47	
Engelskirchen, Jim	-1.32	-1.22	-1.69	-1.00	1.30	-0.37	-1.34	-2.19	-1.36	-1.28	-0.47	
Clapperty, Leon	0.06	0.63	-1.12	0.48	-1.38	-1.22	-0.90	0.03	0.30	0.50	0.57	
Gutzwiller, Jim	1.61	0.15	-0.95	1.70	2.13	-0.90	0.50	0.97	-1.36	-0.24	2.13	
MAXIMUM	1.61	1.72	-1.69	1.70	2.13	1.51	1.85	-2.19	1.96	1.69	2.13	
MINIMUM	0.06	-0.02	0.07	0.08	-0.01	-0.37	0.07	0.03	0.30	-0.09	0.05	
RANGE(MAX-MIN)	1.555	1.741	-1.753	1.620	2.145	1.882	1.779	-2.224	1.658	1.784	2.082	
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= A4 - SQUARE CUT

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	I2TOT	I3TOT	I4TOT	TGF
Castillo, George	53.81	14.31	0.15	0.15	13.92	0.79	0.82	70.00
Hills, Barry	54.53	13.69	0.20	0.17	20.68	0.12	0.21	59.00
Viera, Ralph	51.06	17.25	0.23	0.32	16.56	0.23	0.71	60.00
Yanchar, Paul	53.53	16.61	0.20	0.15	18.04	0.30	0.62	63.00
Kobrinetz, Jack	55.55	14.87	0.09	0.17	19.85	0.24	0.28	69.00
Barrera, Tony	56.78	16.65	0.21	0.11	17.93	0.30	0.37	75.00
Lopez, Frank	48.31	17.53	0.10	0.10	18.47	0.48	0.58	46.00
May, Marianne	60.82	16.31	0.21	0.17	19.09	0.28	0.34	74.00
Pansza, Mike	51.54	11.80	0.14	0.21	17.93	0.29	0.46	62.00
Sherrod, Jeff	53.81	11.20	0.50	0.30	16.15	0.80	1.34	75.00
Clapperty, Leon	51.52	15.71	0.24	0.18	18.73	0.29	0.32	70.00
Engelskirchen, Jim	59.29	12.58	0.20	0.10	14.26	0.54	0.76	55.00
Foeking, Brian	54.52	14.99	0.05	0.05	15.55	0.20	0.28	63.00
Seiz, Ray	57.52	12.43	0.20	0.22	18.74	0.28	0.46	80.00
Avis, Steve	56.81	17.18	0.30	0.77	21.80	0.50	0.86	67.00
MAXIMUM	60.82	17.53	0.50	0.77	21.80	0.80	1.34	80.00
MINIMUM	48.31	11.20	0.05	0.05	13.92	0.12	0.21	46.00
RANGE(MAX-MIN)	12.510	6.330	0.450	0.720	7.880	0.680	1.130	34.000
MEAN	54.627	14.874	0.201	0.211	17.847	0.376	0.561	65.867
STANDARD DEVIATION	3.307	2.119	0.105	0.170	2.225	0.204	0.302	8.879

Part ID= A4 - SQUARE CUT

A4 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	I2TOT	I3TOT	I4TOT	TGF
Castillo, George	-0.25	-0.27	-0.49	-0.36	-1.76	2.02	0.86	0.47
Hills, Barry	-0.03	-0.56	-0.01	-0.24	1.27	-1.25	-1.16	-0.77
Viera, Ralph	-1.08	1.12	0.27	0.64	-0.58	-0.71	0.50	-0.66
Yanchar, Paul	-0.33	0.82	-0.01	-0.36	0.09	-0.37	0.20	-0.32
Kobrinetz, Jack	0.28	0.00	-1.06	-0.24	0.90	-0.67	-0.93	0.35
Barrera, Tony	0.65	0.84	0.08	-0.59	0.04	-0.37	-0.63	1.03
Lopez, Frank	-1.91	1.25	-0.97	-0.65	0.28	0.51	0.06	-2.24
May, Marianne	1.87	0.68	0.08	-0.24	0.56	-0.47	-0.73	0.92
Pansza, Mike	-0.93	-1.45	-0.59	-0.01	0.04	-0.42	-0.33	-0.44
Sherrod, Jeff	-0.25	-1.73	2.85	0.52	-0.76	2.07	2.58	1.03
Clapperty, Leon	-0.94	0.39	0.37	-0.18	0.40	-0.42	-0.80	0.47
Engelskirchen, Jim	1.41	-1.08	-0.01	-0.65	-1.61	0.80	0.66	-1.22
Foeking, Brian	-0.03	0.05	-1.45	-0.95	-1.03	-0.86	-0.93	-0.32
Seiz, Ray	0.88	-1.15	-0.01	0.05	0.40	-0.47	-0.33	1.59
Avis, Steve	0.66	1.09	0.94	3.28	1.78	0.61	0.99	0.13
MAXIMUM	-1.91	-1.73	2.85	3.28	1.78	2.07	2.58	-2.24
MINIMUM	-0.03	0.00	-0.01	-0.01	0.04	-0.37	0.06	0.13
RANGE(MAX-MIN)	-1.881	-1.732	2.866	3.286	1.739	2.445	2.520	-2.365
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= A5 - SEQUENCE III

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	UCTOT	THIOT	ATTOT
Kobrinetz, Jack	24.58	36.25	0.83	48.25	25.00	22.02	0.46	0.38
Hills, Barry	25.00	25.00	0.38	48.76	25.00	13.80	0.52	0.34
Viera, Ralph	28.31	36.25	0.62	49.75	25.00	22.68	0.66	0.41
Castillo, George	25.00	31.00	0.87	47.50	25.00	18.73	0.80	0.58
Yanchar, Paul	24.80	40.00	0.73	40.00	25.00	20.62	0.63	0.54
Barrera, Tony	58.43	34.00	0.98	73.00	25.75	21.25	0.73	0.37
Lopez, Frank	32.50	37.75	1.12	90.25	25.00	24.02	0.54	0.39
Avis, Steve	23.11	31.75	1.36	66.25	25.00	22.55	0.89	0.89
May, Marianne	24.64	35.50	0.75	65.50	25.00	20.93	0.44	0.32
Foecking, Brian	38.66	38.50	0.70	32.50	25.00	22.52	0.73	0.65
Clapperty, Leon	20.80	31.00	0.77	28.75	25.00	17.92	0.58	0.41
Seiz, Ray	100.00	43.00	0.77	74.50	25.00	22.38	0.37	0.35
MAXIMUM	100.00	43.00	1.36	90.25	25.75	24.02	0.89	0.89
MINIMUM	20.80	25.00	0.38	28.75	25.00	13.80	0.37	0.32
RANGE(MAX-MIN)	79.200	18.000	0.980	61.500	0.750	10.220	0.520	0.570
MEAN	35.486	35.000	0.823	55.418	25.063	20.785	0.613	0.469
STANDARD DEVIATION	22.761	4.822	0.248	18.513	0.217	2.792	0.156	0.168

Part ID= A5 - SEQUENCE III

A5 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	UCTOT	THIOT	ATTOT
Kobrinetz, Jack	-0.48	0.26	0.03	-0.39	-0.29	0.44	-0.98	-0.53
Hills, Barry	-0.46	-2.07	-1.79	-0.36	-0.29	-2.50	-0.59	-0.77
Viera, Ralph	-0.32	0.26	-0.82	-0.31	-0.29	0.68	0.30	-0.35
Castillo, George	-0.46	-0.83	0.19	-0.43	-0.29	-0.74	1.20	0.66
Yanchar, Paul	-0.47	1.04	-0.38	-0.83	-0.29	-0.06	0.11	0.42
Barrera, Tony	1.01	-0.21	0.63	0.95	3.18	0.17	0.75	-0.59
Lopez, Frank	-0.13	0.57	1.20	1.88	-0.29	1.16	-0.46	-0.47
Avis, Steve	-0.54	-0.67	2.17	0.59	-0.29	0.63	1.77	2.50
May, Marianne	-0.48	0.10	-0.30	0.54	-0.29	0.05	-1.10	-0.89
Foecking, Brian	0.14	0.73	-0.50	-1.24	-0.29	0.62	0.75	1.08
Clapperty, Leon	-0.65	-0.83	-0.22	-1.44	-0.29	-1.03	-0.21	-0.35
Seiz, Ray	2.83	1.66	-0.22	1.03	-0.29	0.57	-1.55	-0.71
MAXIMUM	2.83	-2.07	2.17	1.88	3.18	-2.50	1.77	2.50
MINIMUM	-0.13	0.10	0.03	-0.31	-0.29	0.05	0.11	-0.35
RANGE(MAX-MIN)	2.966	-2.178	2.139	2.188	3.464	-2.554	1.663	2.853
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= A6 - ARTICULATED 2-PIECE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	UCTOT	OCTOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	2ndGF	TLHC	
Castillo, George	31.25	10.72	2.04	6.30	6.01	12.75	13.57	2.76	0.78	19.00	5.00	0.00	
Hills, Barry	30.25	11.25	1.25	7.20	6.76	18.44	13.77	2.06	0.24	26.00	6.00	0.00	
Viera, Ralph	35.75	11.17	1.50	6.46	6.88	17.63	13.88	2.48	1.39	28.00	8.00	0.00	
Kobrinetz, Jack	33.75	11.50	1.23	5.70	5.15	15.48	13.19	1.62	0.61	25.00	4.00	0.00	
Yanchar, Paul	34.75	12.07	1.10	5.10	6.88	12.90	14.52	2.60	0.70	17.00	5.00	0.00	
Clapperty, Leon	48.00	10.30	0.98	2.10	6.46	12.00	12.35	1.22	0.34	41.00	13.00	0.00	
Seiz, Ray	32.00	9.70	0.99	5.70	5.41	15.57	16.94	0.74	0.78	14.00	2.50	0.00	
May, Marianne	34.00	11.96	0.91	3.00	7.31	13.65	17.09	1.83	0.40	24.00	3.00	0.00	
Lopez, Frank	32.00	9.12	1.50	3.76	3.90	14.99	14.18	1.68	0.40	20.00	2.00	0.00	
Engelskirchen, Jim	32.25	9.68	1.18	1.95	6.78	10.92	11.10	0.80	0.60	15.00	2.00	0.00	
Zalewski, John	31.00	12.34	1.04	2.55	1.35	14.46	18.30	1.35	0.23	14.00	4.00	0.00	
Avis, Steve	32.97	11.80	1.21	7.06	7.50	13.39	15.00	2.21	0.50	23.00	2.00	0.00	
MAXIMUM	48.00	12.34	2.04	7.20	7.50	18.44	18.30	2.76	1.39	41.00	13.00	0.00	
MINIMUM	30.25	9.12	0.91	1.95	1.35	10.92	11.10	0.74	0.23	14.00	2.00	0.00	
RANGE(MAX-MIN)	17.750	3.220	1.130	5.250	6.150	7.520	7.200	2.020	1.160	27.000	11.000	0.000	
MEAN	33.998	10.968	1.244	4.740	5.866	14.348	14.491	1.779	0.581	22.167	4.708	0.000	
STANDARD DEVIATION	4.695	1.060	0.313	1.962	1.753	2.216	2.070	0.672	0.319	7.638	3.194	0.000	

Part ID= A6 - ARTICULATED 2-PIECE

A6 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	UCTOT	OCTOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	2ndGF	TLHC	
Castillo, George	-0.59	-0.23	2.54	0.80	0.08	-0.72	-0.44	1.46	0.62	-0.41	0.09	0.00	
Hills, Barry	-0.80	0.27	0.02	1.25	0.51	1.85	-0.35	0.42	-1.07	0.50	0.40	0.00	
Viera, Ralph	0.37	0.19	0.82	0.88	0.58	1.48	-0.30	1.04	2.54	0.76	1.03	0.00	
Kobrinetz, Jack	-0.05	0.50	-0.05	0.49	-0.41	0.51	-0.63	-0.24	0.09	0.37	-0.22	0.00	
Yanchar, Paul	0.16	1.04	-0.46	0.18	0.58	-0.65	0.01	1.22	0.37	-0.68	0.09	0.00	
Clapperty, Leon	2.98	-0.63	-0.84	-1.35	0.34	-1.06	-1.03	-0.83	-0.76	2.47	2.60	0.00	
Seiz, Ray	-0.43	-1.20	-0.81	0.49	-0.26	0.55	1.18	-1.55	0.62	-1.07	-0.69	0.00	
May, Marianne	0.00	0.94	-1.07	-0.89	0.82	-0.32	1.26	0.08	-0.57	0.24	-0.53	0.00	
Lopez, Frank	-0.43	-1.74	0.82	-0.50	-1.12	0.29	-0.15	-0.15	-0.57	-0.28	-0.85	0.00	
Engelskirchen, Jim	-0.37	-1.21	-0.20	-1.42	0.52	-1.55	-1.64	-1.46	0.06	-0.94	-0.85	0.00	
Zalewski, John	-0.64	1.29	-0.65	-1.12	-2.58	0.05	1.84	-0.64	-1.10	-1.07	-0.22	0.00	
Avis, Steve	-0.22	0.79	-0.11	1.18	0.93	-0.43	0.25	0.64	-0.25	0.11	-0.85	0.00	
MAXIMUM	2.98	-1.74	2.54	-1.42	-2.58	1.85	1.84	-1.55	2.54	2.47	2.60	0.00	
MINIMUM	0.00	0.19	0.02	0.18	0.08	0.05	0.01	0.08	0.06	0.11	0.09	0.00	
RANGE(MAX-MIN)	2.982	-1.934	2.523	-1.606	-2.658	1.796	1.826	-1.623	2.477	2.357	2.505	0.000	
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= B1 - SQUARE CUT

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	I2TOT	I3TOT	I4TOT	TGF
Yanchar, Paul	79.46	1.19	0.28	0.19	5.94	0.87	0.46	84.00
Sanchez, Art	80.30	0.94	0.50	0.24	7.07	0.60	0.41	78.00
Hill, Howard	82.67	1.23	0.43	0.15	5.41	0.66	0.43	82.00
Barrera, Tony	84.75	2.33	0.35	0.23	5.88	1.52	0.46	90.00
Hills, Barry	80.00	0.58	0.22	0.10	6.35	0.89	0.16	85.00
Shoda, Ron	72.45	2.05	0.41	0.15	4.49	1.39	0.60	77.00
Castillo, George	72.90	2.21	0.49	0.32	5.57	1.88	1.01	83.00
Radonich, Pete	78.15	1.38	0.20	0.10	4.90	0.69	0.34	77.00
Lowsky, John	71.60	0.49	0.37	0.26	5.45	0.66	0.43	80.00
Viera, Ralph	75.25	2.31	1.54	0.27	6.33	1.51	0.97	87.00
Holland, Steve	84.58	1.98	0.75	0.39	5.74	1.16	0.84	87.00
Rodriguez, Jesse	74.04	1.58	0.90	0.20	5.67	0.71	0.30	71.00
Langford, Mike	81.90	1.59	0.59	0.20	5.28	1.02	0.37	80.00
Avis, Steve	81.36	2.34	0.74	0.76	6.34	0.82	0.75	85.00
Smith, Russell	77.46	1.48	0.90	0.67	5.27	1.05	0.94	76.00
Lee, Manuel	80.90	4.70	2.00	1.20	7.05	2.10	2.22	75.00
Sherrod, Jeff	49.00	1.50	0.80	0.50	4.43	0.64	0.50	70.00
Caproni, David	75.10	2.25	0.70	0.20	7.06	1.10	0.40	74.00
Zalewski, John	78.46	3.18	2.02	0.68	8.47	2.55	2.17	70.00
Richerson, Jay	84.53	1.69	0.33	0.05	4.95	0.82	0.39	69.00
May, Marianne	77.07	1.22	0.35	0.24	6.92	0.65	0.35	87.00
Borland, Robert	53.85	1.45	0.20	0.10	8.10	0.32	0.30	53.00
Trevino, Robert	83.58	1.49	0.54	0.43	4.88	1.19	0.96	84.00
Pansza, Mike	84.00	1.08	0.20	0.00	4.30	1.13	0.86	82.00
MAXIMUM	84.75	4.70	2.02	1.20	8.47	2.55	2.22	90.00
MINIMUM	49.00	0.49	0.20	0.00	4.30	0.32	0.16	53.00
RANGE(MAX-MIN)	35.750	4.210	1.820	1.200	4.170	2.230	2.060	37.000
MEAN	76.807	1.760	0.659	0.318	5.910	1.080	0.693	78.583
STANDARD DEVIATION	8.816	0.879	0.516	0.275	1.107	0.527	0.526	8.150

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= B1 - SQUARE CUT

B1 Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF
Yanchar, Paul	0.30	-0.65	-0.73	-0.47	0.03	-0.40	-0.44	0.66
Sanchez, Art	0.40	-0.93	-0.31	-0.28	1.05	-0.91	-0.54	-0.07
Hill, Howard	0.67	-0.60	-0.44	-0.61	-0.45	-0.80	-0.50	0.42
Barrera, Tony	0.90	0.65	-0.60	-0.32	-0.03	0.83	-0.44	1.40
Hills, Barry	0.36	-1.34	-0.85	-0.79	0.40	-0.36	-1.01	0.79
Shoda, Ron	-0.49	0.33	-0.48	-0.61	-1.28	0.59	-0.18	-0.19
Castillo, George	-0.44	0.51	-0.33	0.01	-0.31	1.52	0.60	0.54
Radonich, Pete	0.15	-0.43	-0.89	-0.79	-0.91	-0.74	-0.67	-0.19
Lowsky, John	-0.59	-1.45	-0.56	-0.21	-0.42	-0.80	-0.50	0.17
Viera, Ralph	-0.18	0.63	1.71	-0.17	0.38	0.82	0.53	1.03
Holland, Steve	0.88	0.25	0.18	0.26	-0.15	0.15	0.28	1.03
Rodriguez, Jesse	-0.31	-0.20	0.47	-0.43	-0.22	-0.70	-0.75	-0.93
Langford, Mike	0.58	-0.19	-0.13	-0.43	-0.57	-0.11	-0.61	0.17
Avis, Steve	0.52	0.66	0.16	1.61	0.39	-0.49	0.11	0.79
Smith, Russell	0.07	-0.32	0.47	1.28	-0.58	-0.06	0.47	-0.32
Lee, Manuel	0.46	3.35	2.60	3.21	1.03	1.94	2.90	-0.44
Sherrod, Jeff	-3.15	-0.30	0.27	0.66	-1.34	-0.84	-0.37	-1.05
Caproni, David	-0.19	0.56	0.08	-0.43	1.04	0.04	-0.56	-0.56
Zalewski, John	0.19	1.62	2.64	1.32	2.31	2.79	2.81	-1.05
Richerson, Jay	0.88	-0.08	-0.64	-0.98	-0.87	-0.49	-0.58	-1.18
May, Marianne	0.03	-0.61	-0.60	-0.28	0.91	-0.82	-0.65	1.03
Borland, Robert	-2.60	-0.35	-0.89	-0.79	1.98	-1.44	-0.75	-3.14
Trevino, Robert	0.77	-0.31	-0.23	0.41	-0.93	0.21	0.51	0.66
Pansza, Mike	0.82	-0.77	-0.89	-1.16	-1.46	0.09	0.32	0.42
MAXIMUM	-3.15	3.35	2.64	3.21	2.31	2.79	2.90	-3.14
MINIMUM	0.03	-0.08	0.08	0.01	0.03	0.04	0.11	-0.07
RANGE(MAX-MIN)	-3.184	3.425	2.559	3.204	2.286	2.752	2.794	-3.067
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= B2 - KEYSTONE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	USTOT	L1TOT	L2TOT	L3TOT	UCTOT	TGF	2ndGF	TLHC
Yanchar, Paul	28.75	25.00	1.15	0.56	6.68	26.15	2.00	1.56	10.00	20.00	0.00
Barrera, Tony	27.25	25.00	1.22	0.56	6.29	26.49	1.88	1.60	10.00	24.00	0.00
Hill, Howard	24.70	25.00	1.58	0.32	2.55	27.43	1.77	2.20	9.00	32.00	0.00
Shoda, Ron	30.00	25.75	1.13	0.39	7.31	37.49	2.74	1.90	10.00	26.00	0.00
Sanchez, Art	28.00	25.00	0.47	0.34	7.63	30.22	1.69	1.92	25.00	38.00	2.00
Castillo, George	28.31	25.00	2.15	1.01	8.97	25.71	2.56	1.27	12.00	9.00	0.00
Lowsky, John	31.50	25.00	0.88	0.30	5.17	32.37	1.99	2.37	40.00	40.00	0.00
Hills, Barry	27.25	25.00	0.63	0.55	7.23	29.20	1.11	1.35	17.00	2.00	0.00
Viera, Ralph	29.25	25.75	1.40	0.44	9.19	27.43	1.65	1.78	18.00	22.00	0.00
Radonich, Pete	28.00	25.00	0.86	0.38	7.03	31.12	2.11	1.46	10.00	30.00	0.00
Holland, Steve	27.25	25.00	1.13	0.50	7.28	27.40	2.25	1.30	15.00	20.00	0.00
Rodriguez, Jesse	28.25	25.75	0.84	0.37	5.31	26.65	2.12	1.27	7.00	24.00	0.00
Zalewski, John	27.55	25.00	2.41	0.91	8.41	29.99	2.58	2.03	16.00	6.00	0.00
Langford, Mike	27.75	25.00	0.88	0.24	6.96	31.87	2.16	1.10	6.00	20.00	0.00
Smith, Russell	30.75	25.00	1.66	0.68	3.02	34.43	2.58	1.72	16.00	24.00	0.00
Richerson, Jay	30.36	24.56	0.97	0.79	4.47	32.72	2.17	3.43	28.00	51.00	0.00
Lee, Manuel	22.79	25.00	1.84	0.35	3.95	39.74	2.65	2.62	7.00	0.00	0.00
Avis, Steve	27.27	25.00	2.76	0.59	6.13	26.02	2.16	2.59	11.00	9.00	0.00
Trevino, Robert	24.50	25.00	0.71	0.52	6.64	28.15	1.53	1.28	5.00	9.00	0.00
Caproni, David	28.00	25.75	1.64	0.15	4.46	31.36	1.95	2.60	18.00	14.00	0.00
May, Marianne	30.00	25.00	0.58	0.31	4.27	22.93	1.92	1.27	13.00	12.00	0.00
MAXIMUM	31.50	25.75	2.76	1.01	9.19	39.74	2.74	3.43	40.00	51.00	2.00
MINIMUM	22.79	24.56	0.47	0.15	2.55	22.93	1.11	1.10	5.00	0.00	0.00
RANGE(MAX-MIN)	8.710	1.190	2.290	0.860	6.640	16.810	1.630	2.330	35.000	51.000	2.000
MEAN	27.975	25.122	1.280	0.489	6.140	29.756	2.075	1.839	14.429	20.571	0.095
STANDARD DEVIATION	2.103	0.326	0.619	0.218	1.854	4.097	0.407	0.608	8.322	13.025	0.436

Part ID= B2 - KEYSTONE

B2 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	USTOT	L1TOT	L2TOT	L3TOT	UCTOT	TGF	2ndGF	TLHC
Yanchar, Paul	0.37	-0.37	-0.21	0.33	0.29	-0.88	-0.18	-0.46	-0.53	-0.04	-0.22
Barrera, Tony	-0.34	-0.37	-0.10	0.33	0.08	-0.80	-0.48	-0.39	-0.53	0.26	-0.22
Hill, Howard	-1.56	-0.37	0.48	-0.77	-1.94	-0.57	-0.75	0.59	-0.65	0.88	-0.22
Shoda, Ron	0.96	1.92	-0.24	-0.45	0.63	1.89	1.63	0.10	-0.53	0.42	-0.22
Sanchez, Art	0.01	-0.37	-1.31	-0.68	0.80	0.11	-0.94	0.13	1.27	1.34	4.36
Castillo, George	0.16	-0.37	1.40	2.39	1.53	-0.99	1.19	-0.94	-0.29	-0.89	-0.22
Lowsky, John	1.68	-0.37	-0.65	-0.86	-0.52	0.64	-0.21	0.87	3.07	1.49	-0.22
Hills, Barry	-0.34	-0.37	-1.05	0.28	0.59	-0.14	-2.37	-0.80	0.31	-1.43	-0.22
Viera, Ralph	0.61	1.92	0.19	-0.22	1.65	-0.57	-1.04	-0.10	0.43	0.11	-0.22
Radonich, Pete	0.01	-0.37	-0.68	-0.50	0.48	0.33	0.09	-0.62	-0.53	0.72	-0.22
Holland, Steve	-0.34	-0.37	-0.24	0.05	0.61	-0.58	0.43	-0.89	0.07	-0.04	-0.22
Rodriguez, Jesse	0.13	1.92	-0.71	-0.54	-0.45	-0.76	0.11	-0.94	-0.89	0.26	-0.22
Zalewski, John	-0.20	-0.37	1.83	1.93	1.22	0.06	1.24	0.31	0.19	-1.12	-0.22
Langford, Mike	-0.11	-0.37	-0.65	-1.14	0.44	0.52	0.21	-1.22	-1.01	-0.04	-0.22
Smith, Russell	1.32	-0.37	0.61	0.88	-1.68	1.14	1.24	-0.20	0.19	0.26	-0.22
Richerson, Jay	1.13	-1.72	-0.50	1.38	-0.90	0.72	0.23	2.62	1.63	2.34	-0.22
Lee, Manuel	-2.47	-0.37	0.90	-0.63	-1.18	2.44	1.41	1.28	-0.89	-1.58	-0.22
Avis, Steve	-0.34	-0.37	2.39	0.46	-0.01	-0.91	0.21	1.23	-0.41	-0.89	-0.22
Trevino, Robert	-1.65	-0.37	-0.92	0.14	0.27	-0.39	-1.34	-0.92	-1.13	-0.89	-0.22
Caproni, David	0.01	1.92	0.58	-1.55	-0.91	0.39	-0.31	1.25	0.43	-0.50	-0.22
May, Marianne	0.96	-0.37	-1.13	-0.82	-1.01	-1.67	-0.38	-0.94	-0.17	-0.66	-0.22
MAXIMUM	-2.47	1.92	2.39	2.39	-1.94	2.44	-2.37	2.62	3.07	2.34	4.36
MINIMUM	0.01	-0.37	-0.10	0.05	-0.01	0.06	0.09	-0.10	0.07	-0.04	-0.22
RANGE(MAX-MIN)	-2.478	2.297	2.488	2.335	-1.931	2.380	-2.456	2.713	3.004	2.380	4.583
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= B3 - C13-STYLE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	SGF	AGF	TLHC
Yanchar, Paul	25.31	7.36	2.24	20.93	28.61	3.76	2.35	12.00	1.00	18.00	10.00
Hill, Howard	27.20	5.39	2.48	28.19	25.45	2.69	3.32	15.00	1.00	21.00	21.00
Barrera, Tony	29.51	5.34	2.50	19.15	30.61	3.42	1.82	20.00	1.00	25.00	10.00
Sanchez, Art	37.16	6.39	1.27	23.95	36.26	3.12	1.17	25.00	1.00	30.00	18.00
Shoda, Ron	35.73	8.89	3.00	19.54	28.56	5.55	1.00	26.00	3.00	27.00	13.00
Hills, Barry	27.01	3.40	1.83	23.78	22.38	3.20	0.87	17.00	1.00	18.00	14.00
Holland, Steve	24.00	4.47	1.57	23.10	24.61	3.42	2.50	16.00	2.00	20.00	15.00
Castillo, George	25.45	5.13	3.58	19.20	26.55	3.69	2.50	19.00	1.00	20.00	12.00
Lowsky, John	13.99	2.88	1.40	19.49	26.74	2.75	1.70	25.00	1.00	36.00	13.00
Langford, Mike	29.74	5.39	1.60	32.00	29.01	4.42	1.90	17.00	1.00	11.00	22.00
Rodriguez, Jesse	27.70	6.37	1.55	23.28	36.74	3.82	1.95	10.00	1.00	15.00	15.00
Richerson, Jay	22.85	6.56	4.23	28.13	40.63	3.90	2.91	10.00	1.00	23.00	19.00
Zalewski, John	27.90	5.81	5.26	30.98	30.52	2.79	0.50	27.00	1.00	24.00	19.00
Avis, Steve	30.46	6.08	2.90	24.47	27.36	3.62	0.95	16.00	1.00	25.00	14.00
Smith, Russell	25.40	3.18	0.80	24.41	28.54	2.30	0.80	15.00	0.60	18.00	19.00
Lee, Manuel	24.10	4.85	2.00	17.65	32.36	4.70	4.80	15.00	0.00	20.00	9.00
Trevino, Robert	25.49	6.75	2.54	22.40	29.24	3.59	2.19	7.00	0.00	17.00	14.00
MAXIMUM	37.16	8.89	5.26	32.00	40.63	5.55	4.80	27.00	3.00	36.00	22.00
MINIMUM	13.99	2.88	0.80	17.65	22.38	2.30	0.50	7.00	0.00	11.00	9.00
RANGE(MAX-MIN)	23.170	6.010	4.460	14.350	18.250	3.250	4.300	20.000	3.000	25.000	13.000
MEAN	27.000	5.544	2.397	23.568	29.657	3.573	1.955	17.176	1.035	21.647	15.118
STANDARD DEVIATION	5.127	1.539	1.145	4.221	4.656	0.798	1.088	5.908	0.668	5.926	3.935

Part ID= B3 - C13-STYLE

B3 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	SGF	AGF	TLHC
Yanchar, Paul	-0.33	1.18	-0.14	-0.62	-0.22	0.23	0.36	-0.88	-0.05	-0.62	-1.30
Hill, Howard	0.04	-0.10	0.07	1.10	-0.90	-1.11	1.26	-0.37	-0.05	-0.11	1.49
Barrera, Tony	0.49	-0.13	0.09	-1.05	0.20	-0.19	-0.12	0.48	-0.05	0.57	-1.30
Sanchez, Art	1.98	0.55	-0.98	0.09	1.42	-0.57	-0.72	1.32	-0.05	1.41	0.73
Shoda, Ron	1.70	2.17	0.53	-0.95	-0.24	2.48	-0.88	1.49	2.94	0.90	-0.54
Hills, Barry	0.00	-1.39	-0.50	0.05	-1.56	-0.47	-1.00	-0.03	-0.05	-0.62	-0.28
Holland, Steve	-0.59	-0.70	-0.72	-0.11	-1.08	-0.19	0.50	-0.20	1.44	-0.28	-0.03
Castillo, George	-0.30	-0.27	1.03	-1.03	-0.67	0.15	0.50	0.31	-0.05	-0.28	-0.79
Lowsky, John	-2.54	-1.73	-0.87	-0.97	-0.63	-1.03	-0.23	1.32	-0.05	2.42	-0.54
Langford, Mike	0.53	-0.10	-0.70	2.00	-0.14	1.06	-0.05	-0.03	-0.05	-1.80	1.75
Rodriguez, Jesse	0.14	0.54	-0.74	-0.07	1.52	0.31	0.00	-1.21	-0.05	-1.12	-0.03
Richerson, Jay	-0.81	0.66	1.60	1.08	2.36	0.41	0.88	-1.21	-0.05	0.23	0.99
Zalewski, John	0.18	0.17	2.50	1.76	0.19	-0.98	-1.34	1.66	-0.05	0.40	0.99
Avis, Steve	0.67	0.35	0.44	0.21	-0.49	0.06	-0.92	-0.20	-0.05	0.57	-0.28
Smith, Russell	-0.31	-1.54	-1.40	0.20	-0.24	-1.59	-1.06	-0.37	-0.65	-0.62	0.99
Lee, Manuel	-0.57	-0.45	-0.35	-1.40	0.58	1.41	2.62	-0.37	-1.55	-0.28	-1.55
Trevino, Robert	-0.29	0.78	0.12	-0.28	-0.09	0.02	0.22	-1.72	-1.55	-0.78	-0.28
MAXIMUM	-2.54	2.17	2.50	2.00	2.36	2.48	2.62	-1.72	2.94	2.42	1.75
MINIMUM	0.00	-0.10	0.07	0.05	-0.09	0.02	0.00	-0.03	-0.05	-0.11	-0.03
RANGE(MAX-MIN)	-2.540	2.274	2.429	1.948	2.446	2.455	2.620	-1.693	2.994	2.531	1.779
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= B4 - SQUARE CUT

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	I2TOT	I3TOT	I4TOT	TGF
Barrera, Tony	51.50	0.64	0.32	0.05	12.12	1.76	1.67	53.00
Hill, Howard	51.52	0.79	0.34	0.35	11.98	1.93	1.69	70.00
Yanchar, Paul	43.25	1.04	0.24	0.23	12.28	1.46	1.35	48.00
Hills, Barry	50.78	0.64	0.10	0.10	15.31	0.81	0.91	60.00
Sanchez, Art	63.50	0.79	0.39	0.20	10.90	1.39	1.16	72.00
Shoda, Ron	45.29	0.90	0.15	0.10	11.20	2.53	2.62	68.00
Radonich, Pete	55.00	0.90	0.15	0.10	11.47	1.03	1.66	69.00
Castillo, George	50.50	1.30	0.52	0.23	11.52	2.18	2.24	63.00
Lowsky, John	50.00	0.55	0.18	0.24	9.43	1.85	1.53	70.00
Holland, Steve	52.00	0.43	0.13	0.26	11.54	1.51	1.86	63.00
Viera, Ralph	50.25	1.63	0.48	0.64	13.52	2.06	1.86	60.00
Langford, Mike	53.25	1.32	0.37	0.26	14.45	1.82	2.00	65.00
Zalewski, John	64.25	1.50	0.85	0.44	17.92	2.92	3.09	73.00
Avis, Steve	50.75	0.93	0.66	0.25	12.79	1.93	2.08	70.00
Rodriguez, Jesse	51.75	0.65	0.22	0.28	12.25	2.30	1.83	47.00
Smith, Russell	69.00	1.52	0.68	0.22	9.66	2.13	2.10	67.00
Sherrod, Jeff	47.50	1.09	0.53	0.30	13.23	1.40	1.40	72.00
Caproni, David	53.00	0.70	0.20	0.20	11.10	2.50	2.35	60.00
Lee, Manuel	71.50	0.88	0.35	1.15	12.75	3.69	3.09	88.00
Richerson, Jay	70.09	0.76	0.19	0.13	10.73	2.75	1.86	69.00
Trevino, Robert	59.53	1.05	0.26	0.38	11.88	1.24	1.29	73.00
May, Marianne	47.32	0.66	0.21	0.29	12.23	1.38	1.42	72.00
MAXIMUM	71.50	1.63	0.85	1.15	17.92	3.69	3.09	88.00
MINIMUM	43.25	0.43	0.10	0.05	9.43	0.81	0.91	47.00
RANGE(MAX-MIN)	28.250	1.200	0.750	1.100	8.490	2.880	2.180	41.000
MEAN	54.615	0.940	0.342	0.291	12.285	1.935	1.866	66.000
STANDARD DEVIATION	8.087	0.334	0.202	0.231	1.858	0.674	0.565	9.108

Part ID= B4 - SQUARE CUT

B4 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	I2TOT	I3TOT	I4TOT	TGF
Barrera, Tony	-0.39	-0.90	-0.11	-1.04	-0.09	-0.26	-0.35	-1.43
Hill, Howard	-0.38	-0.45	-0.01	0.26	-0.16	-0.01	-0.31	0.44
Yanchar, Paul	-1.41	0.30	-0.50	-0.26	0.00	-0.70	-0.91	-1.98
Hills, Barry	-0.47	-0.90	-1.20	-0.83	1.63	-1.67	-1.69	-0.66
Sanchez, Art	1.10	-0.45	0.24	-0.39	-0.75	-0.81	-1.25	0.66
Shoda, Ron	-1.15	-0.12	-0.95	-0.83	-0.58	0.88	1.33	0.22
Radonich, Pete	0.05	-0.12	-0.95	-0.83	-0.44	-1.34	-0.37	0.33
Castillo, George	-0.51	1.08	0.88	-0.26	-0.41	0.36	0.66	-0.33
Lowsky, John	-0.57	-1.17	-0.80	-0.22	-1.54	-0.13	-0.60	0.44
Holland, Steve	-0.32	-1.53	-1.05	-0.13	-0.40	-0.63	-0.01	-0.33
Viera, Ralph	-0.54	2.07	0.68	1.51	0.66	0.19	-0.01	-0.66
Langford, Mike	-0.17	1.14	0.14	-0.13	1.17	-0.17	0.24	-0.11
Zalewski, John	1.19	1.68	2.51	0.65	3.03	1.46	2.16	0.77
Avis, Steve	-0.48	-0.03	1.57	-0.18	0.27	-0.01	0.38	0.44
Rodriguez, Jesse	-0.35	-0.87	-0.60	-0.05	-0.02	0.54	-0.06	-2.09
Smith, Russell	1.78	1.74	1.67	-0.31	-1.41	0.29	0.41	0.11
Sherrod, Jeff	-0.88	0.45	0.93	0.04	0.51	-0.79	-0.83	0.66
Caproni, David	-0.20	-0.72	-0.70	-0.39	-0.64	0.84	0.86	-0.66
Lee, Manuel	2.09	-0.18	0.04	3.72	0.25	2.60	2.16	2.42
Richerson, Jay	1.91	-0.54	-0.75	-0.70	-0.84	1.21	-0.01	0.33
Trevino, Robert	0.61	0.33	-0.40	0.39	-0.22	-1.03	-1.02	0.77
May, Marianne	-0.90	-0.84	-0.65	0.00	-0.03	-0.82	-0.79	0.66
MAXIMUM	2.09	2.07	2.51	3.72	3.03	2.60	2.16	2.42
MINIMUM	0.05	-0.03	-0.01	0.00	0.00	-0.01	-0.01	-0.11
RANGE(MAX-MIN)	2.040	2.096	2.521	3.720	3.035	2.610	2.176	2.525
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= B5 - SEQ V PISTONS(TH ONLY)

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	SKIRT1	SKIRT2	SKIRT3	SKIRT4	SKIRT5	SKIRT6	SKIRT7	SKIRT8
Yanchar, Paul	9.17	8.99	8.91	8.71	8.71	8.56	8.28	8.32
Hill, Howard	9.12	9.14	9.38	9.31	9.25	9.16	9.14	9.04
Sanchez, Art	9.08	8.96	8.88	8.66	8.91	8.39	8.15	8.50
Barrera, Tony	9.21	9.29	9.23	9.13	9.17	9.09	8.94	8.96
Radonich, Pete	8.87	8.93	8.68	8.37	8.55	8.45	8.19	8.38
Shoda, Ron	8.67	8.60	8.80	8.40	8.40	8.30	8.20	8.20
Zalewski, John	7.69	7.18	7.15	6.59	6.94	6.74	7.27	7.24
Langford, Mike	8.12	8.17	8.34	7.53	7.93	7.43	7.43	7.48
Trevino, Robert	9.28	9.21	9.20	8.80	9.03	8.79	8.58	8.56
Rodriguez, Jesse	9.30	9.25	9.15	8.80	9.01	9.07	8.46	8.49
Lee, Manuel	9.00	8.28	7.83	7.17	7.29	7.49	7.06	7.10
Richerson, Jay	8.76	8.76	8.30	8.17	7.67	7.24	7.24	7.37
May, Marianne	9.47	9.48	9.32	9.14	9.16	9.10	9.02	8.93
Pansza, Mike	9.12	9.06	8.94	8.50	8.93	8.52	8.48	8.42
MAXIMUM	9.47	9.48	9.38	9.31	9.25	9.16	9.14	9.04
MINIMUM	7.69	7.18	7.15	6.59	6.94	6.74	7.06	7.10
RANGE(MAX-MIN)	1.780	2.300	2.230	2.720	2.310	2.420	2.080	1.940
MEAN	8.919	8.807	8.722	8.377	8.496	8.309	8.174	8.214
STANDARD DEVIATION	0.487	0.599	0.630	0.784	0.750	0.782	0.683	0.653

Part ID= B5 - SEQ V PISTONS(TH ONLY)

B5 Y1 Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	SKIRT1	SKIRT2	SKIRT3	SKIRT4	SKIRT5	SKIRT6	SKIRT7	SKIRT8
Yanchar, Paul	0.52	0.31	0.30	0.42	0.28	0.32	0.15	0.16
Hill, Howard	0.41	0.56	1.04	1.19	1.01	1.09	1.41	1.26
Sanchez, Art	0.33	0.26	0.25	0.36	0.55	0.10	-0.04	0.44
Barrera, Tony	0.60	0.81	0.81	0.96	0.90	1.00	1.12	1.14
Radonich, Pete	-0.10	0.21	-0.07	-0.01	0.07	0.18	0.02	0.25
Shoda, Ron	-0.51	-0.35	0.12	0.03	-0.13	-0.01	0.04	-0.02
Zalewski, John	-2.52	-2.72	-2.49	-2.28	-2.08	-2.01	-1.32	-1.49
Langford, Mike	-1.64	-1.06	-0.61	-1.08	-0.76	-1.12	-1.09	-1.12
Trevino, Robert	0.74	0.67	0.76	0.54	0.71	0.61	0.59	0.53
Rodriguez, Jesse	0.78	0.74	0.68	0.54	0.68	0.97	0.42	0.42
Lee, Manuel	0.17	-0.88	-1.42	-1.54	-1.61	-1.05	-1.63	-1.70
Richerson, Jay	-0.33	-0.08	-0.67	-0.26	-1.10	-1.37	-1.37	-1.29
May, Marianne	1.13	1.12	0.95	0.97	0.89	1.01	1.24	1.10
Pansza, Mike	0.41	0.42	0.35	0.16	0.58	0.27	0.45	0.32
MAXIMUM	-2.52	-2.72	-2.49	-2.28	-2.08	-2.01	-1.63	-1.70
MINIMUM	-0.10	-0.08	-0.07	-0.01	0.07	-0.01	0.02	-0.02
RANGE(MAX-MIN)	-2.425	-2.637	-2.427	-2.270	-2.147	-1.995	-1.653	-1.683
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= B6 - ARTICULATED 2-PIECE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	UCTOT	OCTOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	2ndGF	TLHC	
Yanchar, Paul	15.93	10.33	2.33	4.36	6.88	10.00	9.81	3.83	0.49	4.00	2.00	0.00	
Sanchez, Art	14.38	7.71	1.26	5.55	4.50	9.83	8.90	2.69	0.50	3.00	4.00	0.00	
Hill, Howard	16.18	8.97	1.95	4.35	7.90	9.03	8.02	4.06	0.17	4.00	2.00	0.00	
Barrera, Tony	16.24	8.47	1.99	4.20	5.10	12.56	7.49	3.13	0.42	3.00	1.00	1.00	
Shoda, Ron	10.00	8.42	2.74	4.36	9.64	8.34	8.00	3.84	0.16	5.00	5.00	0.00	
Lowsky, John	13.95	5.10	1.69	6.01	5.40	10.70	4.78	2.72	0.34	20.00	3.00	0.00	
Avis, Steve	10.80	9.82	2.89	6.90	7.20	10.10	7.96	3.47	0.62	1.00	2.00	0.00	
Rodriguez, Jesse	15.98	8.29	2.07	4.80	5.70	9.01	4.96	3.28	0.40	4.00	1.00	0.00	
Langford, Mike	12.08	10.09	2.23	3.00	4.50	9.62	6.39	3.52	0.56	1.00	1.00	0.00	
Smith, Russell	12.60	5.25	1.17	3.30	6.14	6.69	7.42	2.63	0.61	3.00	2.00	1.00	
Lee, Manuel	8.57	6.70	5.70	0.00	0.15	7.67	5.39	3.71	1.40	2.00	0.00	0.00	
Zalewski, John	9.70	8.84	3.98	4.95	8.74	10.91	7.90	4.92	0.20	3.00	1.00	0.00	
Richerson, Jay	7.78	6.61	1.73	4.95	5.26	10.22	5.22	2.79	0.04	0.00	1.00	0.00	
Borland, Robert	20.60	8.16	2.14	2.40	6.01	10.39	6.07	3.40	0.10	15.00	3.00	1.00	
MAXIMUM	20.60	10.33	5.70	6.90	9.64	12.56	9.81	4.92	1.40	20.00	5.00	1.00	
MINIMUM	7.78	5.10	1.17	0.00	0.15	6.69	4.78	2.63	0.04	0.00	0.00	0.00	
RANGE(MAX-MIN)	12.820	5.230	4.530	6.900	9.490	5.870	5.030	2.290	1.360	20.000	5.000	1.000	
MEAN	13.199	8.054	2.419	4.224	5.937	9.648	7.022	3.428	0.429	4.857	2.000	0.214	
STANDARD DEVIATION	3.624	1.638	1.179	1.689	2.271	1.457	1.563	0.635	0.339	5.614	1.359	0.426	

Part ID= B6 - ARTICULATED 2-PIECE

B6 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	UCTOT	OCTOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	2ndGF	TLHC	
Yanchar, Paul	0.75	1.39	-0.08	0.08	0.42	0.24	1.78	0.63	0.18	-0.15	0.00	-0.50	
Sanchez, Art	0.33	-0.21	-0.98	0.79	-0.63	0.13	1.20	-1.16	0.21	-0.33	1.47	-0.50	
Hill, Howard	0.82	0.56	-0.40	0.07	0.86	-0.42	0.64	0.99	-0.76	-0.15	0.00	-0.50	
Barrera, Tony	0.84	0.25	-0.36	-0.01	-0.37	2.00	0.30	-0.47	-0.03	-0.33	-0.74	1.85	
Shoda, Ron	-0.88	0.22	0.27	0.08	1.63	-0.90	0.63	0.65	-0.79	0.03	2.21	-0.50	
Lowsky, John	0.21	-1.80	-0.62	1.06	-0.24	0.72	-1.43	-1.11	-0.26	2.70	0.74	-0.50	
Avis, Steve	-0.66	1.08	0.40	1.59	0.56	0.31	0.60	0.07	0.56	-0.69	0.00	-0.50	
Rodriguez, Jesse	0.77	0.14	-0.30	0.34	-0.10	-0.44	-1.32	-0.23	-0.09	-0.15	-0.74	-0.50	
Langford, Mike	-0.31	1.24	-0.16	-0.72	-0.63	-0.02	-0.40	0.15	0.39	-0.69	-0.74	-0.50	
Smith, Russell	-0.17	-1.71	-1.06	-0.55	0.09	-2.03	0.25	-1.26	0.53	-0.33	0.00	1.85	
Lee, Manuel	-1.28	-0.83	2.78	-2.50	-2.55	-1.36	-1.04	0.44	2.86	-0.51	-1.47	-0.50	
Zalewski, John	-0.97	0.48	1.32	0.43	1.23	0.87	0.56	2.35	-0.68	-0.33	-0.74	-0.50	
Richerson, Jay	-1.50	-0.88	-0.58	0.43	-0.30	0.39	-1.15	-1.00	-1.15	-0.87	-0.74	-0.50	
Borland, Robert	2.04	0.06	-0.24	-1.08	0.03	0.51	-0.61	-0.04	-0.97	1.81	0.74	1.85	
MAXIMUM	2.04	-1.80	2.78	-2.50	-2.55	-2.03	1.78	2.35	2.86	2.70	2.21	1.85	
MINIMUM	-0.17	0.06	-0.08	-0.01	0.03	-0.02	0.25	-0.04	-0.03	0.03	0.00	-0.50	
RANGE(MAX-MIN)	2.208	-1.868	2.857	-2.487	-2.580	-2.012	1.529	2.392	2.887	2.672	2.208	2.348	
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= C1 - SQUARE CUT

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF
Guarda, Waldyr	10.14	3.02	0.30	0.20	8.72	1.20	0.42	4.00
Holland, Steve	9.57	2.87	0.32	0.03	8.28	2.08	0.72	6.00
Hill, Howard	10.30	1.65	0.14	0.03	9.85	1.08	0.28	2.00
Lowsky, John	8.85	3.10	0.34	0.10	9.50	1.15	0.40	10.00
Shoda, Ron	10.15	2.28	0.30	0.20	8.69	1.50	0.60	3.00
Radonich, Pete	9.04	2.32	0.20	0.05	8.80	1.11	0.39	2.00
Kobrinetz, Jack	10.46	2.48	0.20	0.11	10.82	0.94	0.36	1.00
Yanchar, Paul	11.69	2.98	0.20	0.02	11.17	1.05	0.37	2.00
Lonsway, Chris	7.65	2.99	0.14	0.10	8.96	0.81	0.36	2.00
Borland, Robert	10.34	3.02	0.20	0.05	9.54	2.40	0.35	5.00
Foecking, Brian	9.44	3.67	0.26	0.01	8.78	1.35	0.60	1.00
Greenland, Paul	9.53	2.30	0.32	0.25	9.35	1.68	0.76	4.00
Caproni, David	10.32	2.65	0.20	0.10	8.80	6.26	1.18	5.00
Seiz, Ray	8.98	2.30	0.30	0.10	8.85	0.78	0.41	2.00
Sherrod, Jeff	8.95	2.13	0.80	0.40	11.32	1.30	0.83	10.00
Engelskirchen, Jim	8.77	2.39	0.20	0.10	9.29	1.34	0.42	1.00
MAXIMUM	11.69	3.67	0.80	0.40	11.32	6.26	1.18	10.00
MINIMUM	7.65	1.65	0.14	0.01	8.28	0.78	0.28	1.00
RANGE(MAX-MIN)	4.040	2.020	0.660	0.390	3.040	5.480	0.900	9.000
MEAN	9.636	2.634	0.276	0.116	9.420	1.627	0.528	3.750
STANDARD DEVIATION	0.947	0.493	0.154	0.103	0.927	1.309	0.240	2.887

Part ID= C1 - SQUARE CUT

C1 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF
Guarda, Waldyr	0.53	0.78	0.15	0.82	-0.75	-0.33	-0.45	0.09
Holland, Steve	-0.07	0.48	0.28	-0.83	-1.23	0.35	0.80	0.78
Hill, Howard	0.70	-2.00	-0.88	-0.83	0.46	-0.42	-1.03	-0.61
Lowsky, John	-0.83	0.94	0.41	-0.15	0.09	-0.36	-0.53	2.17
Shoda, Ron	0.54	-0.72	0.15	0.82	-0.79	-0.10	0.30	-0.26
Radonich, Pete	-0.63	-0.64	-0.49	-0.64	-0.67	-0.39	-0.58	-0.61
Kobrinetz, Jack	0.87	-0.31	-0.49	-0.05	1.51	-0.52	-0.70	-0.95
Yanchar, Paul	2.17	0.70	-0.49	-0.93	1.89	-0.44	-0.66	-0.61
Lonsway, Chris	-2.10	0.72	-0.88	-0.15	-0.50	-0.62	-0.70	-0.61
Borland, Robert	0.74	0.78	-0.49	-0.64	0.13	0.59	-0.74	0.43
Foecking, Brian	-0.21	2.10	-0.11	-1.03	-0.69	-0.21	0.30	-0.95
Greenland, Paul	-0.11	-0.68	0.28	1.31	-0.08	0.04	0.97	0.09
Caproni, David	0.72	0.03	-0.49	-0.15	-0.67	3.54	2.72	0.43
Seiz, Ray	-0.69	-0.68	0.15	-0.15	-0.61	-0.65	-0.49	-0.61
Sherrod, Jeff	-0.72	-1.02	3.40	2.77	2.05	-0.25	1.26	2.17
Engelskirchen, Jim	-0.92	-0.50	-0.49	-0.15	-0.14	-0.22	-0.45	-0.95
MAXIMUM	2.17	2.10	3.40	2.77	2.05	3.54	2.72	2.17
MINIMUM	-0.07	0.03	-0.11	-0.05	-0.08	0.04	0.30	0.09
RANGE(MAX-MIN)	2.240	2.070	3.504	2.826	2.125	3.498	2.416	2.079
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= C2 - KEYSTONE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	USTOT	L1TOT	L2TOT	L3TOT	UCTOT	TGF	2ndGF	TLHC
Holland, Steve	25.00	41.26	1.39	0.93	12.97	36.96	2.91	1.58	10.00	52.00	0.00
Guarda, Waldyr	30.25	41.27	0.94	1.86	17.06	45.64	3.16	2.72	23.00	41.00	2.00
Lowsky, John	57.50	37.54	1.55	1.30	12.25	37.60	2.13	2.08	75.00	60.00	0.00
Hill, Howard	26.83	39.76	1.58	1.06	10.30	34.45	2.62	2.42	23.00	57.00	0.00
Radonich, Pete	26.25	39.00	1.26	0.93	15.20	42.65	2.64	2.13	10.00	63.00	0.00
Kobrinetz, Jack	26.00	39.04	1.51	0.76	15.44	35.33	2.84	2.04	12.00	41.00	0.00
Yanchar, Paul	28.00	38.28	1.43	1.27	17.34	33.69	2.55	1.89	14.00	37.00	0.00
Borland, Robert	46.75	40.29	1.79	0.94	19.90	37.20	3.62	1.48	44.00	38.00	5.00
Lonsway, Chris	25.25	39.02	1.67	1.44	13.63	32.23	2.65	2.06	7.00	32.00	0.00
Caproni, David	52.50	40.00	1.75	0.85	17.81	44.80	3.48	2.91	55.00	40.00	3.00
Greenland, Paul	32.50	35.25	1.81	0.92	11.03	37.38	3.01	3.35	12.00	63.00	0.00
Foecking, Brian	25.50	38.25	1.37	1.19	14.75	35.87	2.47	1.51	6.00	48.00	0.00
Seiz, Ray	30.13	41.85	0.92	0.79	18.02	36.96	2.77	2.24	16.00	30.00	0.00
Clapperty, Leon	26.00	41.26	1.14	0.65	20.43	29.93	1.76	0.65	21.00	70.00	6.00
MAXIMUM	57.50	41.85	1.81	1.86	20.43	45.64	3.62	3.35	75.00	70.00	6.00
MINIMUM	25.00	35.25	0.92	0.65	10.30	29.93	1.76	0.65	6.00	30.00	0.00
RANGE(MAX-MIN)	32.500	6.600	0.890	1.210	10.130	15.710	1.860	2.700	69.000	40.000	6.000
MEAN	32.747	39.434	1.436	1.064	15.438	37.192	2.758	2.076	23.429	48.000	1.143
STANDARD DEVIATION	10.995	1.784	0.290	0.322	3.153	4.487	0.487	0.672	20.429	12.824	2.070

Part ID= C2 - KEYSTONE

C2 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	USTOT	L1TOT	L2TOT	L3TOT	UCTOT	TGF	2ndGF	TLHC
Holland, Steve	-0.70	1.02	-0.16	-0.42	-0.78	-0.05	0.31	-0.74	-0.66	0.31	-0.55
Guarda, Waldyr	-0.23	1.03	-1.71	2.48	0.51	1.88	0.83	0.96	-0.02	-0.55	0.41
Lowsky, John	2.25	-1.06	0.39	0.73	-1.01	0.09	-1.29	0.01	2.52	0.94	-0.55
Hill, Howard	-0.54	0.18	0.49	-0.01	-1.63	-0.61	-0.28	0.51	-0.02	0.70	-0.55
Radonich, Pete	-0.59	-0.24	-0.61	-0.42	-0.08	1.22	-0.24	0.08	-0.66	1.17	-0.55
Kobrinetz, Jack	-0.61	-0.22	0.25	-0.94	0.00	-0.42	0.17	-0.05	-0.56	-0.55	-0.55
Yanchar, Paul	-0.43	-0.65	-0.02	0.64	0.60	-0.78	-0.43	-0.28	-0.46	-0.86	-0.55
Borland, Robert	1.27	0.48	1.22	-0.38	1.42	0.00	1.77	-0.89	1.01	-0.78	1.86
Lonsway, Chris	-0.68	-0.23	0.80	1.17	-0.57	-1.11	-0.22	-0.02	-0.80	-1.25	-0.55
Caproni, David	1.80	0.32	1.08	-0.66	0.75	1.70	1.48	1.24	1.55	-0.62	0.90
Greenland, Paul	-0.02	-2.35	1.29	-0.45	-1.40	0.04	0.52	1.90	-0.56	1.17	-0.55
Foecking, Brian	-0.66	-0.66	-0.23	0.39	-0.22	-0.29	-0.59	-0.84	-0.85	0.00	-0.55
Seiz, Ray	-0.24	1.35	-1.78	-0.85	0.82	-0.05	0.02	0.24	-0.36	-1.40	-0.55
Clapperty, Leon	-0.61	1.02	-1.02	-1.29	1.58	-1.62	-2.05	-2.12	-0.12	1.72	2.35
MAXIMUM	2.25	-2.35	-1.78	2.48	-1.63	1.88	-2.05	-2.12	2.52	1.72	2.35
MINIMUM	-0.02	0.18	-0.02	-0.01	0.00	0.00	0.02	0.01	-0.02	0.00	0.41
RANGE(MAX-MIN)	2.274	-2.528	-1.757	2.487	-1.630	1.881	-2.075	-2.128	2.545	1.716	1.932
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= C3 - C13-STYLE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	SGF	AGF	TLHC	
Guarda, Waldyr	34.59	6.54	3.68	11.79	32.15	3.42	2.80	58.00	1.00	34.00	4.00	
Holland, Steve	43.02	6.19	2.69	7.23	30.31	3.00	3.00	35.00	1.00	25.00	3.00	
Lowsky, John	47.30	3.85	1.70	7.03	20.25	2.50	2.35	50.00	1.00	30.00	3.00	
Hill, Howard	39.27	5.59	2.95	9.67	23.44	2.70	3.20	50.00	0.00	27.00	3.00	
Yanchar, Paul	37.91	8.89	2.73	10.00	28.20	2.25	0.30	30.00	1.00	25.00	3.00	
Radonich, Pete	45.56	5.45	2.60	8.46	24.15	2.00	1.63	43.00	1.00	3.00	3.00	
Kobrinetz, Jack	38.74	5.03	2.68	9.01	27.31	2.49	2.76	39.00	0.50	26.00	3.00	
Lonsway, Chris	47.55	5.63	0.88	9.16	27.41	1.57	0.35	30.00	1.00	29.00	3.00	
Caproni, David	51.60	7.67	3.30	7.92	29.92	3.50	4.00	60.00	2.00	38.00	3.00	
Greenland, Paul	48.65	5.81	2.48	8.29	28.15	2.29	2.60	44.00	1.00	30.00	3.00	
Foecking, Brian	35.86	6.82	1.98	8.18	27.40	2.21	1.28	36.00	1.00	25.00	4.00	
Borland, Robert	43.64	5.36	2.30	8.46	24.18	1.38	0.10	45.00	2.00	17.00	3.00	
Seiz, Ray	37.43	6.11	1.77	8.82	30.99	0.61	2.17	27.00	1.00	21.00	3.00	
MAXIMUM	51.60	8.89	3.68	11.79	32.15	3.50	4.00	60.00	2.00	38.00	4.00	
MINIMUM	34.59	3.85	0.88	7.03	20.25	0.61	0.10	27.00	0.00	3.00	3.00	
RANGE(MAX-MIN)	17.010	5.040	2.800	4.760	11.900	2.890	3.900	33.000	2.000	35.000	1.000	
MEAN	42.394	6.072	2.442	8.771	27.220	2.302	2.042	42.077	1.038	25.385	3.154	
STANDARD DEVIATION	5.462	1.248	0.732	1.243	3.401	0.804	1.226	10.523	0.519	8.578	0.376	

Part ID= C3 - C13-STYLE

C3 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	SGF	AGF	TLHC	
Guarda, Waldyr	-1.43	0.37	1.69	2.43	1.45	1.39	0.62	1.51	-0.07	1.00	2.25	
Holland, Steve	0.11	0.09	0.34	-1.24	0.91	0.87	0.78	-0.67	-0.07	-0.04	-0.41	
Lowsky, John	0.90	-1.78	-1.01	-1.40	-2.05	0.25	0.25	0.75	-0.07	0.54	-0.41	
Hill, Howard	-0.57	-0.39	0.69	0.72	-1.11	0.50	0.95	0.75	-2.00	0.19	-0.41	
Yanchar, Paul	-0.82	2.26	0.39	0.99	0.29	-0.06	-1.42	-1.15	-0.07	-0.04	-0.41	
Radonich, Pete	0.58	-0.50	0.22	-0.25	-0.90	-0.38	-0.34	0.09	-0.07	-2.61	-0.41	
Kobrinetz, Jack	-0.67	-0.83	0.33	0.19	0.03	0.23	0.59	-0.29	-1.04	0.07	-0.41	
Lonsway, Chris	0.94	-0.35	-2.13	0.31	0.06	-0.91	-1.38	-1.15	-0.07	0.42	-0.41	
Caproni, David	1.69	1.28	1.17	-0.68	0.79	1.49	1.60	1.70	1.85	1.47	-0.41	
Greenland, Paul	1.15	-0.21	0.05	-0.39	0.27	-0.01	0.46	0.18	-0.07	0.54	-0.41	
Foecking, Brian	-1.20	0.60	-0.63	-0.48	0.05	-0.11	-0.62	-0.58	-0.07	-0.04	2.25	
Borland, Robert	0.23	-0.57	-0.19	-0.25	-0.89	-1.15	-1.58	0.28	1.85	-0.98	-0.41	
Seiz, Ray	-0.91	0.03	-0.92	0.04	1.11	-2.10	0.10	-1.43	-0.07	-0.51	-0.41	
MAXIMUM	1.69	2.26	-2.13	2.43	-2.05	-2.10	1.60	1.70	-2.00	-2.61	2.25	
MINIMUM	0.11	0.03	0.05	0.04	0.03	-0.01	0.10	0.09	-0.07	-0.04	-0.41	
RANGE(MAX-MIN)	1.571	2.227	-2.186	2.389	-2.076	-2.090	1.493	1.616	-1.927	-2.565	2.663	
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= C4 - SQUARE CUT

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF
Guarda, Waldyr	50.43	4.47	0.30	0.20	19.29	0.80	0.68	63.00
Holland, Steve	53.18	8.21	0.52	0.20	17.30	0.78	0.91	63.00
Hill, Howard	49.97	2.60	0.30	0.12	18.56	0.21	0.42	69.00
Lowsky, John	41.50	11.14	0.14	0.12	17.43	0.83	1.03	65.00
Radonich, Pete	46.52	5.26	0.10	0.05	17.88	0.49	0.48	58.00
Yanchar, Paul	47.19	8.76	0.25	0.05	17.91	0.35	0.55	51.00
Kobrinetz, Jack	48.75	7.61	0.15	0.15	16.53	0.42	0.53	61.00
Shoda, Ron	51.50	6.78	0.20	0.10	15.61	0.72	1.21	63.00
Seiz, Ray	58.45	8.56	0.20	0.50	19.66	0.56	0.82	74.00
Foecking, Brian	47.86	6.77	0.07	0.03	14.54	0.57	0.74	66.00
Caproni, David	50.80	3.25	0.20	0.10	15.06	1.17	1.26	49.00
Greenland, Paul	51.90	5.96	0.35	0.30	18.51	0.75	1.13	65.00
Borland, Robert	45.60	7.62	0.15	0.05	17.22	0.30	1.01	46.00
Sherrod, Jeff	47.70	5.56	0.62	0.50	15.59	0.74	1.10	60.00
Rodriguez, Jesse	42.41	7.44	0.10	0.10	19.49	0.55	0.69	57.00
Lonsway, Chris	45.63	4.72	0.25	0.10	14.83	0.63	0.52	56.00
Richerson, Jay	58.02	4.53	0.20	0.04	14.16	0.81	1.19	58.00
MAXIMUM	58.45	11.14	0.62	0.50	19.66	1.17	1.26	74.00
MINIMUM	41.50	2.60	0.07	0.03	14.16	0.21	0.42	46.00
RANGE(MAX-MIN)	16.950	8.540	0.550	0.470	5.500	0.960	0.840	28.000
MEAN	49.259	6.426	0.241	0.159	17.034	0.628	0.839	60.235
STANDARD DEVIATION	4.630	2.192	0.146	0.146	1.801	0.236	0.286	7.164

Part ID= C4 - SQUARE CUT

C4 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF
Guarda, Waldyr	0.25	-0.89	0.40	0.28	1.25	0.73	-0.56	0.39
Holland, Steve	0.85	0.81	1.90	0.28	0.15	0.64	0.25	0.39
Hill, Howard	0.15	-1.75	0.40	-0.27	0.85	-1.77	-1.47	1.22
Lowsky, John	-1.68	2.15	-0.69	-0.27	0.22	0.85	0.67	0.67
Radonich, Pete	-0.59	-0.53	-0.96	-0.75	0.47	-0.59	-1.26	-0.31
Yanchar, Paul	-0.45	1.06	0.06	-0.75	0.49	-1.18	-1.01	-1.29
Kobrinetz, Jack	-0.11	0.54	-0.62	-0.06	-0.28	-0.88	-1.08	0.11
Shoda, Ron	0.48	0.16	-0.28	-0.41	-0.79	0.39	1.30	0.39
Seiz, Ray	1.99	0.97	-0.28	2.34	1.46	-0.29	-0.07	1.92
Foecking, Brian	-0.30	0.16	-1.17	-0.89	-1.38	-0.25	-0.35	0.80
Caproni, David	0.33	-1.45	-0.28	-0.41	-1.10	2.29	1.47	-1.57
Greenland, Paul	0.57	-0.21	0.74	0.97	0.82	0.52	1.02	0.67
Borland, Robert	-0.79	0.54	-0.62	-0.75	0.10	-1.39	0.60	-1.99
Sherrod, Jeff	-0.34	-0.40	2.59	2.34	-0.80	0.47	0.91	-0.03
Rodriguez, Jesse	-1.48	0.46	-0.96	-0.41	1.36	-0.33	-0.52	-0.45
Lonsway, Chris	-0.78	-0.78	0.06	-0.41	-1.22	0.01	-1.12	-0.59
Richerson, Jay	1.89	-0.86	-0.28	-0.82	-1.60	0.77	1.23	-0.31
MAXIMUM	1.99	2.15	2.59	2.34	-1.60	2.29	1.47	-1.99
MINIMUM	-0.11	0.16	0.06	-0.06	0.10	0.01	-0.07	-0.03
RANGE(MAX-MIN)	2.095	1.994	2.527	2.403	-1.700	2.287	1.541	-1.954
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= C5 - SEQUENCE III

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	UCTOT	THIOT	ATTOT
Guarda, Waldyr	41.69	37.00	0.76	47.52	26.50	24.03	0.98	0.33
Holland, Steve	34.00	51.25	1.18	57.65	25.00	16.53	0.80	0.40
Lowsky, John	24.77	41.50	0.70	57.65	25.00	15.05	0.33	1.25
Radonich, Pete	32.50	43.75	0.83	46.54	25.00	16.20	0.97	0.22
Shoda, Ron	36.25	47.50	1.08	54.69	25.00	15.40	0.86	0.25
Yanchar, Paul	26.30	45.25	0.64	50.20	25.00	20.20	0.83	0.32
Hill, Howard	22.60	36.25	1.83	53.43	25.00	15.00	1.56	0.87
Kobrinetz, Jack	24.54	45.25	0.68	45.86	25.00	23.90	0.40	0.20
Foecking, Brian	23.88	46.00	0.78	60.03	25.00	23.15	1.01	0.29
Seiz, Ray	92.50	43.00	1.24	77.57	28.75	22.63	0.71	0.34
Caproni, David	36.25	46.75	1.60	59.22	25.00	23.93	0.68	0.23
Greenland, Paul	25.00	36.25	1.11	53.50	25.00	23.22	0.75	0.13
Borland, Robert	47.17	47.50	0.83	33.36	25.00	13.65	0.60	0.12
Lonsway, Chris	34.00	31.75	0.83	41.77	24.77	23.25	0.72	0.19
Rodriguez, Jesse	24.75	53.50	0.68	73.80	25.00	18.63	0.69	0.19
MAXIMUM	92.50	53.50	1.83	77.57	28.75	24.03	1.56	1.25
MINIMUM	22.60	31.75	0.64	33.36	24.77	13.65	0.33	0.12
RANGE(MAX-MIN)	69.900	21.750	1.190	44.210	3.980	10.380	1.230	1.130
MEAN	35.080	43.500	0.985	54.186	25.335	19.651	0.793	0.355
STANDARD DEVIATION	17.490	6.004	0.356	11.315	1.024	3.984	0.287	0.305

Part ID= C5 - SEQUENCE III

C5 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	UCTOT	THIOT	ATTOT
Guarda, Waldyr	0.38	-1.08	-0.63	-0.59	1.14	1.10	0.65	-0.08
Holland, Steve	-0.06	1.29	0.55	0.31	-0.33	-0.78	0.03	0.15
Lowsky, John	-0.59	-0.33	-0.80	0.31	-0.33	-1.15	-1.61	2.93
Radonich, Pete	-0.15	0.04	-0.43	-0.68	-0.33	-0.87	0.62	-0.44
Shoda, Ron	0.07	0.67	0.27	0.04	-0.33	-1.07	0.23	-0.35
Yanchar, Paul	-0.50	0.29	-0.97	-0.35	-0.33	0.14	0.13	-0.12
Hill, Howard	-0.71	-1.21	2.38	-0.07	-0.33	-1.17	2.68	1.69
Kobrinetz, Jack	-0.60	0.29	-0.86	-0.74	-0.33	1.07	-1.37	-0.51
Foecking, Brian	-0.64	0.42	-0.58	0.52	-0.33	0.88	0.76	-0.21
Seiz, Ray	3.28	-0.08	0.72	2.07	3.33	0.75	-0.29	-0.05
Caproni, David	0.07	0.54	1.73	0.44	-0.33	1.07	-0.39	-0.41
Greenland, Paul	-0.58	-1.21	0.35	-0.06	-0.33	0.90	-0.15	-0.74
Borland, Robert	0.69	0.67	-0.43	-1.84	-0.33	-1.51	-0.67	-0.77
Lonsway, Chris	-0.06	-1.96	-0.43	-1.10	-0.55	0.90	-0.25	-0.54
Rodriguez, Jesse	-0.59	1.67	-0.86	1.73	-0.33	-0.26	-0.36	-0.54
MAXIMUM	3.28	-1.96	2.38	2.07	3.33	-1.51	2.68	2.93
MINIMUM	-0.06	0.04	0.27	0.04	-0.33	0.14	0.03	-0.05
RANGE(MAX-MIN)	3.345	-1.999	2.109	2.022	3.662	-1.644	2.650	2.982
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= C6 - ARTICULATED 2-PIECE

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	UCTOT	OCTOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	2ndGF	TLHC
Holland, Steve	4.57	3.18	2.48	1.50	5.70	5.96	6.09	2.37	0.60	2.00	0.00	0.00
Lowsky, John	5.05	2.45	1.73	6.30	7.21	10.90	5.45	2.59	0.80	2.00	0.00	0.00
Guarda, Waldyr	8.24	6.27	2.36	6.90	3.60	15.70	9.88	3.93	1.22	8.00	3.00	0.00
Radonich, Pete	5.84	3.96	1.57	4.81	6.53	9.74	7.20	2.35	0.23	2.00	0.00	0.00
Yanchar, Paul	9.73	5.54	2.27	5.40	8.66	10.70	8.31	3.63	0.82	1.00	1.00	0.00
Hill, Howard	6.65	4.05	2.45	5.40	6.00	8.92	7.63	3.95	0.82	2.00	0.00	0.00
Kobrinetz, Jack	9.25	4.80	1.96	6.28	7.79	12.25	7.29	2.77	0.41	1.00	0.20	0.00
Foecking, Brian	8.77	4.86	2.11	3.45	7.17	9.54	6.62	3.05	0.54	1.00	1.00	0.00
Lonsway, Chris	9.85	4.83	1.78	6.01	6.30	9.65	5.95	2.48	0.69	1.00	1.00	0.00
Caproni, David	8.35	4.94	3.37	5.86	6.60	11.80	8.29	3.43	2.30	2.00	1.00	0.00
Greenland, Paul	7.16	4.73	3.63	5.56	6.76	6.76	3.86	0.66	0.66	2.00	1.00	0.00
Borland, Robert	9.73	4.49	2.86	6.60	7.43	21.11	7.12	3.54	0.25	4.00	0.00	0.00
MAXIMUM	9.85	6.27	3.63	6.90	8.66	21.11	9.88	3.95	2.30	8.00	3.00	0.00
MINIMUM	4.57	2.45	1.57	1.50	3.60	5.96	3.86	0.66	0.23	1.00	0.00	0.00
RANGE(MAX-MIN)	5.280	3.820	2.060	5.400	5.060	15.150	6.020	3.290	2.070	7.000	3.000	0.000
MEAN	7.766	4.508	2.381	5.339	6.646	11.086	6.974	2.896	0.778	2.333	0.683	0.000
STANDARD DEVIATION	1.877	1.010	0.639	1.514	1.254	4.043	1.553	0.919	0.551	1.969	0.876	0.000

Part ID= C6 - ARTICULATED 2-PIECE

C6 YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	G1TOT	G2TOT	G3TOT	UCTOT	OCTOT	L1TOT	L2TOT	L3TOT	L4TOT	TGF	2ndGF	TLHC
Holland, Steve	-1.70	-1.31	0.16	-2.54	-0.75	-1.27	-0.57	-0.57	-0.32	-0.17	-0.78	0.00
Lowsky, John	-1.45	-2.04	-1.02	0.63	0.45	-0.05	-0.98	-0.33	0.04	-0.17	-0.78	0.00
Guarda, Waldyr	0.25	1.74	-0.03	1.03	-2.43	1.14	1.87	1.12	0.80	2.88	2.65	0.00
Radonich, Pete	-1.03	-0.54	-1.27	-0.35	-0.09	-0.33	0.15	-0.59	-1.00	-0.17	-0.78	0.00
Yanchar, Paul	1.05	1.02	-0.17	0.04	1.61	-0.10	0.86	0.80	0.08	-0.68	0.36	0.00
Hill, Howard	-0.59	-0.45	0.11	0.04	-0.51	-0.54	0.42	1.15	0.08	-0.17	-0.78	0.00
Kobrinetz, Jack	0.79	0.29	-0.66	0.62	0.91	0.29	0.20	-0.14	-0.67	-0.68	-0.55	0.00
Foecking, Brian	0.54	0.35	-0.42	-1.25	0.42	-0.38	-0.23	0.17	-0.43	-0.68	0.36	0.00
Lonsway, Chris	1.11	0.32	-0.94	0.44	-0.28	-0.36	-0.66	-0.45	-0.16	-0.68	0.36	0.00
Caproni, David	0.31	0.43	1.55	0.34	-0.04	0.18	0.85	0.58	2.76	-0.17	0.36	0.00
Greenland, Paul	-0.32	0.22	1.96	0.15	0.09	-1.07	-2.00	-2.43	-0.21	-0.17	0.36	0.00
Borland, Robert	1.05	-0.02	0.75	0.83	0.63	2.48	0.09	0.70	-0.96	0.85	-0.78	0.00
MAXIMUM	-1.70	-2.04	1.96	-2.54	-2.43	2.48	-2.00	-2.43	2.76	2.88	2.65	0.00
MINIMUM	0.25	-0.02	-0.03	0.04	-0.04	-0.05	0.09	-0.14	0.04	-0.17	0.36	0.00
RANGE(MAX-MIN)	-1.955	-2.019	1.988	-2.577	-2.392	2.526	-2.099	-2.295	2.722	3.047	2.284	0.000
MEAN	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.000



# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= SCAL1 - VG TIMING CHAIN COVER CALIBRATION

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Radonich, Pete	8.59	
Yanchar, Paul	9.09	
Hills, Barry	9.11	
Hill, Howard	9.03	
Shoda, Ron	8.79	
Guarda, Waldyr	8.77	
Holland, Steve	9.10	
Lowsky, John	7.68	
Sanchez, Art	8.91	
Barrera, Tony	9.09	
Castillo, George	8.70	
Kobrinetz, Jack	8.94	
Viera, Ralph	9.00	
Foecking, Brian	8.60	
Engelskirchen, Jim	8.83	
May, Marianne	8.70	
Rodriguez, Jesse	8.51	
Caproni, David	8.91	
Seiz, Ray	8.22	
Greenland, Paul	8.87	
Lopez, Frank	9.16	
Trevino, Robert	8.98	
Avis, Steve	8.75	
Lonsway, Chris	8.52	
Clapperty, Leon	9.08	
Pansza, Mike	9.19	
Zalewski, John	8.89	
Lee, Manuel	9.65	
Gutzwiller, Jim	9.53	
MAXIMUM	9.65	
MINIMUM	7.68	
RANGE(MAX-MIN)	1.970	
MEAN	8.869	
STANDARD DEVIATION	0.372	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= SCAL1 - VG TIMING CHAIN COVER CALIBRATION

SCAL1 Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Radonich, Pete	-0.75	
Yanchar, Paul	0.59	
Hills, Barry	0.65	
Hill, Howard	0.43	
Shoda, Ron	-0.21	
Guarda, Waldyr	-0.27	
Holland, Steve	0.62	
Lowsky, John	-3.19	
Sanchez, Art	0.11	
Barrera, Tony	0.59	
Castillo, George	-0.45	
Kobrinetz, Jack	0.19	
Viera, Ralph	0.35	
Foecking, Brian	-0.72	
Engelskirchen, Jim	-0.10	
May, Marianne	-0.45	
Rodriguez, Jesse	-0.96	
Caproni, David	0.11	
Seiz, Ray	-1.74	
Greenland, Paul	0.00	
Lopez, Frank	0.78	
Trevino, Robert	0.30	
Avis, Steve	-0.32	
Lonsway, Chris	-0.94	
Clapperty, Leon	0.57	
Pansza, Mike	0.86	
Zalewski, John	0.06	
Lee, Manuel	2.10	
Gutzwiller, Jim	1.78	
MAXIMUM	-3.19	
MINIMUM	0.00	
RANGE(MAX-MIN)	-3.198	
MEAN	0.000	
STANDARD DEVIATION	1.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= SCAL2 - VG TIMING CHAIN COVER CALIBRATION

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Yanchar, Paul	9.16	
Lowsky, John	9.02	
Viera, Ralph	9.23	
Kobrinetz, Jack	9.16	
Castillo, George	9.06	
Barrera, Tony	9.18	
Hills, Barry	9.19	
Radonich, Pete	9.08	
Sanchez, Art	9.06	
Guarda, Waldyr	8.81	
Hill, Howard	8.84	
Holland, Steve	9.18	
Shoda, Ron	9.06	
Rodriguez, Jesse	8.79	
Zalewski, John	9.18	
Foecking, Brian	9.08	
May, Marianne	9.14	
Clapperty, Leon	9.34	
Caproni, David	9.14	
Pansza, Mike	9.20	
Greenland, Paul	9.03	
Lopez, Frank	9.19	
Seiz, Ray	9.03	
Avis, Steve	9.18	
Trevino, Robert	9.14	
Engelskirchen, Jim	9.09	
Lee, Manuel	9.62	
Lonsway, Chris	9.11	
Gutzwiller, Jim	9.16	
MAXIMUM	9.62	
MINIMUM	8.79	
RANGE(MAX-MIN)	0.830	
MEAN	9.119	
STANDARD DEVIATION	0.155	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= SCAL2 - VG TIMING CHAIN COVER CALIBRATION

SCAL2 Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Yanchar, Paul	0.26	
Lowsky, John	-0.64	
Viera, Ralph	0.72	
Kobrinetz, Jack	0.26	
Castillo, George	-0.38	
Barrera, Tony	0.39	
Hills, Barry	0.46	
Radonich, Pete	-0.25	
Sanchez, Art	-0.38	
Guarda, Waldyr	-1.99	
Hill, Howard	-1.80	
Holland, Steve	0.39	
Shoda, Ron	-0.38	
Rodriguez, Jesse	-2.12	
Zalewski, John	0.39	
Foecking, Brian	-0.25	
May, Marianne	0.14	
Clapperty, Leon	1.43	
Caproni, David	0.14	
Pansza, Mike	0.52	
Greenland, Paul	-0.57	
Lopez, Frank	0.46	
Seiz, Ray	-0.57	
Avis, Steve	0.39	
Trevino, Robert	0.14	
Engelskirchen, Jim	-0.19	
Lee, Manuel	3.24	
Lonsway, Chris	-0.06	
Gutzwiller, Jim	0.26	
MAXIMUM	3.24	
MINIMUM	-0.06	
RANGE(MAX-MIN)	3.293	
MEAN	0.000	
STANDARD DEVIATION	1.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= ISMRC - ISM ROCKER COVER

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Yanchar, Paul	9.20	
Holland, Steve	9.03	
Hill, Howard	9.07	
Viera, Ralph	9.17	
Castillo, George	8.81	
Barrera, Tony	9.21	
Radonich, Pete	9.22	
Sanchez, Art	9.42	
Shoda, Ron	9.20	
Kobrinetz, Jack	9.08	
Hills, Barry	9.12	
Guarda, Waldyr	8.89	
Lowsky, John	8.42	
Clapperty, Leon	9.15	
Foecking, Brian	9.17	
Lee, Manuel	9.44	
May, Marianne	8.99	
Caproni, David	9.20	
Rodriguez, Jesse	9.51	
Pansza, Mike	9.33	
Seiz, Ray	9.09	
Greenland, Paul	9.41	
Avis, Steve	8.77	
Zalewski, John	9.35	
Lopez, Frank	9.13	
Trevino, Robert	9.12	
Lonsway, Chris	9.18	
MAXIMUM	9.51	
MINIMUM	8.42	
RANGE(MAX-MIN)	1.090	
MEAN	9.136	
STANDARD DEVIATION	0.228	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= ISMRC - ISM ROCKER COVER

ISMRC Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Yanchar, Paul	0.28	
Holland, Steve	-0.47	
Hill, Howard	-0.29	
Viera, Ralph	0.15	
Castillo, George	-1.43	
Barrera, Tony	0.32	
Radonich, Pete	0.37	
Sanchez, Art	1.24	
Shoda, Ron	0.28	
Kobrinetz, Jack	-0.25	
Hills, Barry	-0.07	
Guarda, Waldyr	-1.08	
Lowsky, John	-3.14	
Clapperty, Leon	0.06	
Foecking, Brian	0.15	
Lee, Manuel	1.33	
May, Marianne	-0.64	
Caproni, David	0.28	
Rodriguez, Jesse	1.64	
Pansza, Mike	0.85	
Seiz, Ray	-0.20	
Greenland, Paul	1.20	
Avis, Steve	-1.60	
Zalewski, John	0.94	
Lopez, Frank	-0.03	
Trevino, Robert	-0.07	
Lonsway, Chris	0.19	
MAXIMUM	-3.14	
MINIMUM	-0.03	
RANGE(MAX-MIN)	-3.108	
MEAN	0.000	
STANDARD DEVIATION	1.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= ISMOP - ISM OIL PAN

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Yanchar, Paul	9.12	
Holland, Steve	8.77	
Hill, Howard	8.74	
Viera, Ralph	9.20	
Castillo, George	8.70	
Barrera, Tony	9.10	
Sanchez, Art	9.27	
Radonich, Pete	9.08	
Shoda, Ron	9.20	
Kobrinetz, Jack	9.02	
Guarda, Waldyr	8.60	
Hills, Barry	9.01	
Lowsky, John	7.97	
Foecking, Brian	9.12	
Lee, Manuel	9.29	
May, Marianne	8.91	
Caproni, David	9.15	
Pansza, Mike	9.30	
Rodriguez, Jesse	9.29	
Seiz, Ray	8.91	
Greenland, Paul	9.25	
Clapperty, Leon	9.11	
Avis, Steve	8.31	
Lopez, Frank	9.03	
Zalewski, John	9.14	
Trevino, Robert	9.12	
Lonsway, Chris	9.00	
MAXIMUM	9.30	
MINIMUM	7.97	
RANGE(MAX-MIN)	1.330	
MEAN	8.989	
STANDARD DEVIATION	0.311	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= ISMOP - ISM OIL PAN

ISMOP Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	TOTALS	
Yanchar, Paul	0.42	
Holland, Steve	-0.71	
Hill, Howard	-0.80	
Viera, Ralph	0.68	
Castillo, George	-0.93	
Barrera, Tony	0.36	
Sanchez, Art	0.90	
Radonich, Pete	0.29	
Shoda, Ron	0.68	
Kobrinetz, Jack	0.10	
Guarda, Waldyr	-1.25	
Hills, Barry	0.07	
Lowsky, John	-3.28	
Foecking, Brian	0.42	
Lee, Manuel	0.97	
May, Marianne	-0.26	
Caproni, David	0.52	
Pansza, Mike	1.00	
Rodriguez, Jesse	0.97	
Seiz, Ray	-0.26	
Greenland, Paul	0.84	
Clapperty, Leon	0.39	
Avis, Steve	-2.19	
Lopez, Frank	0.13	
Zalewski, John	0.49	
Trevino, Robert	0.42	
Lonsway, Chris	0.03	
MAXIMUM	-3.28	
MINIMUM	0.03	
RANGE(MAX-MIN)	-3.316	
MEAN	0.000	
STANDARD DEVIATION	1.000	



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= J - C13 2ND RING CARBON CALIBRATION

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Lowsky, John	23.00	14.00	19.00	13.00	20.00	23.00
Viera, Ralph	47.00	14.00	47.00	16.00	41.00	49.00
Barrera, Tony	51.00	15.00	54.00	18.00	47.00	47.00
Castillo, George	34.00	14.00	35.00	13.00	30.00	39.00
Guarda, Waldyr	37.00	14.00	37.00	10.00	35.00	50.00
Kobrinetz, Jack	34.00	14.00	52.00	14.00	44.00	54.00
Avis, Steve	33.00	12.00	48.00	14.00	38.00	47.00
May, Marianne	36.00	12.00	49.00	10.00	38.00	48.00
Trevino, Robert	54.00	8.00	39.00	11.00	49.00	46.00
Seiz, Ray	88.00	11.00	60.00	12.00	82.00	81.00
Lopez, Frank	34.00	11.00	52.00	12.00	56.00	59.00
Gutzwiller, Jim	53.00	20.00	59.00	14.00	63.00	62.00
MAXIMUM	88.000	20.000	60.000	18.000	82.000	81.000
MINIMUM	23.000	8.000	19.000	10.000	20.000	23.000
RANGE(MAX-MIN)	65.000	12.000	41.000	8.000	62.000	58.000
MEAN	43.667	13.250	45.917	13.083	45.250	50.417
STANDARD DEVIATION	16.919	2.896	11.658	2.353	16.232	13.780

Part ID= J - C13 2ND RING CARBON CALIBRATION

J YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Lowsky, John	-1.22	0.26	-2.31	-0.04	-1.56	-1.99
Viera, Ralph	0.20	0.26	0.09	1.24	-0.26	-0.10
Barrera, Tony	0.43	0.60	0.69	2.09	0.11	-0.25
Castillo, George	-0.57	0.26	-0.94	-0.04	-0.94	-0.83
Guarda, Waldyr	-0.39	0.26	-0.76	-1.31	-0.63	-0.03
Kobrinetz, Jack	-0.57	0.26	0.52	0.39	-0.08	0.26
Avis, Steve	-0.63	-0.43	0.18	0.39	-0.45	-0.25
May, Marianne	-0.45	-0.43	0.26	-1.31	-0.45	-0.18
Trevino, Robert	0.61	-1.81	-0.59	-0.89	0.23	-0.32
Seiz, Ray	2.62	-0.78	1.21	-0.46	2.26	2.22
Lopez, Frank	-0.57	-0.78	0.52	-0.46	0.66	0.62
Gutzwiller, Jim	0.55	2.33	1.12	0.39	1.09	0.84
MAXIMUM	2.62	2.33	-2.31	2.09	2.26	2.22
MINIMUM	0.20	0.26	0.09	-0.04	-0.08	-0.03
RANGE(MAX-MIN)	2.423	2.072	-2.402	2.125	2.341	2.250
MEAN	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= D - C13 2ND RING CARBON

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Castillo, George	18.00	37.00	11.00	13.00	11.00	22.00
Kobrinetz, Jack	13.00	45.00	10.00	12.00	9.00	19.00
Viera, Ralph	16.00	38.00	12.00	13.00	11.00	19.00
Barrera, Tony	13.00	41.00	9.00	12.00	10.00	20.00
Guarda, Waldyr	13.00	16.00	15.00	13.00	15.00	20.00
May, Marianne	13.00	36.00	10.00	12.00	9.00	16.00
Avis, Steve	16.00	35.00	13.00	14.00	11.00	21.00
Lopez, Frank	16.00	44.00	11.00	14.00	12.00	20.00
MAXIMUM	18.00	45.00	15.00	14.00	15.00	22.00
MINIMUM	13.00	16.00	9.00	12.00	9.00	16.00
RANGE(MAX-MIN)	5.000	29.000	6.000	2.000	6.000	6.000
MEAN	14.750	36.500	11.375	12.875	11.000	19.625
STANDARD DEVIATION	1.982	9.055	1.923	0.835	1.927	1.768

Part ID= D - C13 2ND RING CARBON

D YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Castillo, George	1.64	0.06	-0.20	0.15	0.00	1.34
Kobrinetz, Jack	-0.88	0.94	-0.72	-1.05	-1.04	-0.35
Viera, Ralph	0.63	0.17	0.33	0.15	0.00	-0.35
Barrera, Tony	-0.88	0.50	-1.24	-1.05	-0.52	0.21
Guarda, Waldyr	-0.88	-2.26	1.89	0.15	2.08	0.21
May, Marianne	-0.88	-0.06	-0.72	-1.05	-1.04	-2.05
Avis, Steve	0.63	-0.17	0.85	1.35	0.00	0.78
Lopez, Frank	0.63	0.83	-0.20	1.35	0.52	0.21
MAXIMUM	1.64	-2.26	1.89	1.35	2.08	-2.05
MINIMUM	0.63	0.06	-0.20	0.15	0.00	0.21
RANGE(MAX-MIN)	1.009	-2.319	2.081	1.198	2.076	-2.263
MEAN	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= E - C13 2ND RING CARBON

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Castillo, George	40.00	36.00	10.00	42.00	11.00	15.00
Viera, Ralph	40.00	35.00	8.00	34.00	14.00	14.00
Barrera, Tony	50.00	40.00	5.00	45.00	12.00	14.00
Guarda, Waldyr	40.00	38.00	7.00	38.00	12.00	14.00
Kobrinetz, Jack	46.00	38.00	6.00	45.00	12.00	13.00
May, Marianne	43.00	43.00	4.00	44.00	10.00	12.00
Avis, Steve	48.00	43.00	3.00	50.00	10.00	12.00
Seiz, Ray	26.00	32.00	1.00	22.00	7.00	12.00
MAXIMUM	50.00	43.00	10.00	50.00	14.00	15.00
MINIMUM	26.00	32.00	1.00	22.00	7.00	12.00
RANGE(MAX-MIN)	24.000	11.000	9.000	28.000	7.000	3.000
MEAN	41.625	38.125	5.500	40.000	11.000	13.250
STANDARD DEVIATION	7.405	3.834	2.878	8.734	2.070	1.165

Part ID= E - C13 2ND RING CARBON

E Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Castillo, George	-0.22	-0.55	1.56	0.23	0.00	1.50
Viera, Ralph	-0.22	-0.82	0.87	-0.69	1.45	0.64
Barrera, Tony	1.13	0.49	-0.17	0.57	0.48	0.64
Guarda, Waldyr	-0.22	-0.03	0.52	-0.23	0.48	0.64
Kobrinetz, Jack	0.59	-0.03	0.17	0.57	0.48	-0.21
May, Marianne	0.19	1.27	-0.52	0.46	-0.48	-1.07
Avis, Steve	0.86	1.27	-0.87	1.14	-0.48	-1.07
Seiz, Ray	-2.11	-1.60	-1.56	-2.06	-1.93	-1.07
MAXIMUM	-2.11	-1.60	1.56	-2.06	-1.93	1.50
MINIMUM	0.19	-0.03	-0.17	0.23	0.00	-0.21
RANGE(MAX-MIN)	-2.296	-1.565	1.737	-2.290	-1.932	1.717
MEAN	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Part ID= F - C13 2ND RING CARBON

Rated Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Castillo, George	57.00	21.00	26.00	13.00	32.00	16.00
Viera, Ralph	36.00	20.00	28.00	13.00	34.00	14.00
Barrera, Tony	48.00	20.00	26.00	13.00	39.00	15.00
Guarda, Waldyr	42.00	21.00	27.00	15.00	38.00	16.00
Kobrinetz, Jack	45.00	18.00	20.00	11.00	33.00	14.00
May, Marianne	40.00	17.00	26.00	10.00	36.00	12.00
Avis, Steve	54.00	19.00	31.00	11.00	36.00	14.00
Seiz, Ray	32.00	16.00	25.00	8.00	24.00	11.00
MAXIMUM	57.00	21.00	31.00	15.00	39.00	16.00
MINIMUM	32.00	16.00	20.00	8.00	24.00	11.00
RANGE(MAX-MIN)	25.000	5.000	11.000	7.000	15.000	5.000
MEAN	44.250	19.000	26.125	11.750	34.000	14.000
STANDARD DEVIATION	8.565	1.852	3.091	2.188	4.690	1.773

Part ID= F - C13 2ND RING CARBON

F Yi Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

Rater	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME
Castillo, George	1.49	1.08	-0.04	0.57	-0.43	1.13
Viera, Ralph	-0.96	0.54	0.61	0.57	0.00	0.00
Barrera, Tony	0.44	0.54	-0.04	0.57	1.07	0.56
Guarda, Waldyr	-0.26	1.08	0.28	1.49	0.85	1.13
Kobrinetz, Jack	0.09	-0.54	-1.98	-0.34	-0.21	0.00
May, Marianne	-0.50	-1.08	-0.04	-0.80	0.43	-1.13
Avis, Steve	1.14	0.00	1.58	-0.34	0.43	0.00
Seiz, Ray	-1.43	-1.62	-0.36	-1.71	-2.13	-1.69
MAXIMUM	1.49	-1.62	-1.98	-1.71	-2.13	-1.69
MINIMUM	0.09	0.00	-0.04	-0.34	0.00	0.00
RANGE(MAX-MIN)	1.401	-1.620	-1.941	-1.371	-2.132	-1.692
MEAN	0.000	0.000	0.000	0.000	0.000	0.000
STANDARD DEVIATION	1.000	1.000	1.000	1.000	1.000	1.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Avis, Steve

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	0.45	0.15	0.75	0.67	-0.10	-0.12	0.40	0.41									
A2-KEYSTONE																	
A3-C13-STYLE	-0.84	0.09	0.97		-0.21	1.03	-0.74	0.73		-0.91		0.30	-0.47	0.95			
A4-SQUARE CUT	0.66	1.09	0.94	3.28	1.78	0.61	0.99	0.13									
A5-SEQUENCE III	-0.54	-0.67	2.17		0.59	-0.29					0.63				1.77	2.50	
A6-ARTICULATED 2-PIECE	-0.22	0.79	-0.11		0.25	0.64	-0.25	0.11		-0.43	1.18	-0.85	0.00				0.93
B1-SQUARE CUT	0.52	0.66	0.16	1.61	0.39	-0.49	0.11	0.79									
B2-KEYSTONE	-0.34	-0.37	2.39		-0.91	0.21		-0.41	0.46	-0.01	1.23	-0.89	-0.22				
B3-C13-STYLE	0.67	0.35	0.44		-0.49	0.06	-0.92	-0.20		0.21		-0.05	-0.28	0.57			
B4-SQUARE CUT	-0.48	-0.03	1.57	-0.18	0.27	-0.01	0.38	0.44									
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE	-0.66	1.08	0.40		0.60	0.07	0.56	-0.69		0.31	1.58	0.00	-0.50				0.56
C1-SQUARE CUT																	
C2-KEYSTONE																	
C3-C13-STYLE																	
C4-SQUARE CUT																	
C5-SEQUENCE III																	
C6-ARTICULATED 2-PIECE																	
CAL1A-CALIBRATION PISTON	0.36	0.61	-0.37		-0.03	-0.72		-1.08									
CAL1B-CALIBRATION PISTON	0.04	-0.55	-0.74		-0.30	-0.31		1.08									
CAL2A-CALIBRATION PISTON	-0.71	1.14	0.88		-1.11	0.56		-0.49									
CAL2B-CALIBRATION PISTON	0.42	0.43	-0.26		0.81	-0.19		0.13									
MAXIMUM	-0.84	1.14	2.39	3.28	1.78	1.03	0.99	-1.08	0.46	-0.91	1.58	-0.89	-0.50	0.95	1.77	2.50	0.93
MINIMUM	0.04	-0.03	-0.11	-0.18	-0.03	-0.01	0.11	0.11	0.46	-0.01	0.63	0.00	0.00	0.57	1.77	2.50	0.56
RANGE(MAX-MIN)	-0.880	1.170	2.500	3.460	1.810	1.040	0.880	-1.190	0.000	-0.900	0.950	-0.890	-0.500	0.380	0.000	0.000	0.370
MEAN	-0.048	0.341	0.656	1.345	0.110	0.075	0.066	0.073	0.460	-0.166	1.155	-0.298	-0.294	0.760	1.770	2.500	0.745
STANDARD DEVIATION	0.552	0.601	0.926	1.483	0.739	0.490	0.658	0.629	0.000	0.504	0.393	0.539	0.203	0.269	0.000	0.000	0.262

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Avis, Steve

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-2.19	
ISMRC-ISM ROCKER COVER	-1.60	
SCAL1-VG TC COVER CAL	-0.32	
SCAL2-VG TC COVER CAL	0.39	
MAXIMUM	-2.19	
MINIMUM	-0.32	
RANGE(MAX-MIN)	-1.870	
MEAN	-0.930	
STANDARD DEVIATION	1.176	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Avis, Steve

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	0.63	-0.17	0.85	1.35	0.00	0.78	
E-C13 2ND RING CARBON	0.86	1.27	-0.87	1.14	-0.48	-1.07	
F-C13 2ND RING CARBON	1.14	0.00	1.58	-0.34	0.43	0.00	
J-C13 2ND RING CARBON CALIBRATION	0.63	-0.43	0.18	0.39	-0.45	-0.25	
MAXIMUM	1.14	1.27	1.58	1.35	-0.48	-1.07	
MINIMUM	0.63	0.00	0.18	-0.34	0.00	0.00	
RANGE(MAX-MIN)	0.510	1.270	1.400	1.690	-0.480	-1.070	
MEAN	0.500	0.168	0.435	0.635	-0.125	-0.135	
STANDARD DEVIATION	0.782	0.756	1.041	0.770	0.430	0.762	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Barrera, Tony

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	-0.32	-0.03	-0.93	-1.06	0.39	-0.42	-1.06	-0.05										
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT	0.65	0.84	0.08	-0.59	0.04	-0.37	-0.63	1.03										
A5-SEQUENCE III	1.01	-0.21	0.63		0.95	3.18					0.17				0.75	-0.59		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.90	0.65	-0.60	-0.32	-0.03	0.83	-0.44	1.40										
B2-KEYSTONE	-0.34	-0.37	-0.10		-0.80	-0.48		-0.53	0.33	0.08	-0.39	0.26	-0.22					
B3-C13-STYLE	0.49	-0.13	0.09		0.20	-0.19	-0.12	0.48		-1.05		-0.05	-1.30	0.57				
B4-SQUARE CUT	-0.39	-0.90	-0.11	-1.04	-0.09	-0.26	-0.35	-1.43										
B5-1-SEQ V PISTONS(TH ONLY)															0.60			
B5-2-SEQ V PISTONS(TH ONLY)															0.81			
B5-3-SEQ V PISTONS(TH ONLY)															0.81			
B5-4-SEQ V PISTONS(TH ONLY)															0.96			
B5-5-SEQ V PISTONS(TH ONLY)															0.90			
B5-6-SEQ V PISTONS(TH ONLY)															1.00			
B5-7-SEQ V PISTONS(TH ONLY)															1.12			
B5-8-SEQ V PISTONS(TH ONLY)															1.14			
B6-ARTICULATED 2-PIECE	0.84	0.25	-0.36		0.30	-0.47	-0.03	-0.33		2.00	-0.01	-0.74	1.85					-0.37
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.69	1.00	0.73		-0.17	0.44		0.96										
CAL1B-CALIBRATION PISTON	0.21	-0.12	0.85		-0.27	0.40		0.73										
CAL2A-CALIBRATION PISTON	-0.09	0.72	0.58		0.43	-0.12		0.38										
CAL2B-CALIBRATION PISTON	-0.29	-0.24	-0.35		0.15	-0.71		-0.87										
MAXIMUM	1.01	1.00	-0.93	-1.06	0.95	3.18	-1.06	-1.43	0.33	2.00	-0.39	-0.74	1.85	0.57	1.14	-0.59	-0.37	
MINIMUM	-0.09	-0.03	0.08	-0.32	-0.03	-0.12	-0.03	-0.05	0.33	0.08	-0.01	-0.05	-0.22	0.57	0.60	-0.59	-0.37	
RANGE(MAX-MIN)	1.100	1.030	-1.010	-0.740	0.980	3.300	-1.030	-1.380	0.000	1.920	-0.380	-0.690	2.070	0.000	0.540	0.000	0.000	
MEAN	0.280	0.122	0.043	-0.753	0.092	0.153	-0.438	0.161	0.330	0.343	-0.077	-0.177	0.110	0.570	0.899	-0.590	-0.370	
STANDARD DEVIATION	0.543	0.573	0.563	0.361	0.431	1.056	0.374	0.881	0.000	1.542	0.286	0.512	1.601	0.000	0.176	0.000	0.000	



# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Barrera, Tony

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.36	
ISMRC-ISM ROCKER COVER	0.32	
SCAL1-VG TC COVER CAL	0.59	
SCAL2-VG TC COVER CAL	0.39	
MAXIMUM	0.59	
MINIMUM	0.32	
RANGE(MAX-MIN)	0.270	
MEAN	0.415	
STANDARD DEVIATION	0.120	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Barrera, Tony

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	-0.88	0.50	-1.24	-1.05	-0.52	0.21	
E-C13 2ND RING CARBON	1.13	0.49	-0.17	0.57	0.48	0.64	
F-C13 2ND RING CARBON	0.44	0.54	-0.04	0.57	1.07	0.56	
J-C13 2ND RING CARBON CALIBRATION	0.43	0.60	0.69	2.09	0.11	-0.25	
MAXIMUM	1.13	0.60	-1.24	2.09	1.07	0.64	
MINIMUM	0.43	0.49	-0.04	0.57	0.11	0.21	
RANGE(MAX-MIN)	0.700	0.110	-1.200	1.520	0.960	0.430	
MEAN	0.280	0.533	-0.190	0.545	0.285	0.290	
STANDARD DEVIATION	0.840	0.050	0.796	1.282	0.667	0.406	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Borland, Robert

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	-2.60	-0.35	-0.89	-0.79	1.98	-1.44	-0.75	-3.14										
B2-KEYSTONE																		
B3-C13-STYLE																		
B4-SQUARE CUT																		
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE	2.04	0.06	-0.24		-0.61	-0.04	-0.97	1.81		0.51	-1.08	0.74	1.85				0.03	
C1-SQUARE CUT	0.74	0.78	-0.49	-0.64	0.13	0.59	-0.74	0.43										
C2-KEYSTONE	1.27	0.48	1.22		0.00	1.77	-0.74	1.01	-0.38	1.42	-0.89	-0.78	1.86					
C3-C13-STYLE	0.23	-0.57	-0.19		-0.89	-1.15	-1.58	0.28		-0.25		1.85	-0.41	-0.98				
C4-SQUARE CUT	-0.79	0.54	-0.62	-0.75	0.10	-1.39	0.60	-1.99										
C5-SEQUENCE III	0.69	0.67	-0.43		-1.84	-0.33					-1.51				-0.67	-0.77		
C6-ARTICULATED 2-PIECE	1.05	-0.02	0.75		0.09	0.70	-0.96	0.85		2.48	0.83	-0.78	0.00				0.63	
CAL1A-CALIBRATION PISTON	-1.66	-1.00	1.73		-0.23	0.71		-1.91										
CAL1B-CALIBRATION PISTON	-0.86	-0.57	-0.43		0.00	-0.39		-1.71										
CAL2A-CALIBRATION PISTON	1.88	-0.43	-0.42		-0.57	0.77		-1.03										
CAL2B-CALIBRATION PISTON	-1.84	-1.42	1.03		0.23	0.46		-0.87										
MAXIMUM	-2.60	-1.42	1.73	-0.79	1.98	1.77	-1.58	-3.14	-0.38	2.48	-1.51	1.85	1.86	-0.98	-0.67	-0.77	0.63	
MINIMUM	0.23	-0.02	-0.19	-0.64	0.00	-0.04	0.60	0.28	-0.38	-0.25	0.83	0.74	0.00	-0.98	-0.67	-0.77	0.03	
RANGE(MAX-MIN)	-2.830	-1.400	1.920	-0.150	1.980	1.810	-2.180	-3.420	0.000	2.730	-2.340	1.110	1.860	0.000	0.000	0.000	0.600	
MEAN	0.013	-0.153	0.085	-0.727	-0.134	0.022	-0.733	-0.570	-0.380	1.040	-0.663	0.258	0.825	-0.980	-0.670	-0.770	0.330	
STANDARD DEVIATION	1.530	0.693	0.857	0.078	0.890	0.994	0.721	1.547	0.000	1.178	1.028	1.281	1.201	0.000	0.000	0.000	0.424	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Caproni, David

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	-0.19	0.56	0.08	-0.43	1.04	0.04	-0.56	-0.56										
B2-KEYSTONE	0.01	1.92	0.58		0.39	-0.31		0.43	-1.55	-0.91	1.25	-0.50	-0.22					
B3-C13-STYLE																		
B4-SQUARE CUT	-0.20	-0.72	-0.70	-0.39	-0.64	0.84	0.86	-0.66										
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT	0.72	0.03	-0.49	-0.15	-0.67	3.54	2.72	0.43										
C2-KEYSTONE	1.80	0.32	1.08		1.70	1.48		1.55	-0.66	0.75	1.24	-0.62	0.90					
C3-C13-STYLE	1.69	1.28	1.17		0.79	1.49	1.60	1.70		-0.68		1.85	-0.41	1.47				
C4-SQUARE CUT	0.33	-1.45	-0.28	-0.41	-1.10	2.29	1.47	-1.57										
C5-SEQUENCE III	0.07	0.54	1.73		0.44	-0.33					1.07				-0.39	-0.41		
C6-ARTICULATED 2-PIECE	0.31	0.43	1.55		0.85	0.58	2.76	-0.17		0.18	0.34	0.36	0.00					-0.04
CAL1A-CALIBRATION PISTON	-1.76	-0.94	-0.37		-0.30	-0.42		-0.85										
CAL1B-CALIBRATION PISTON	-0.51	-0.85	-0.74		-0.88	-0.10		-2.18										
CAL2A-CALIBRATION PISTON	-0.68	-0.34	-0.42		-1.72	-0.22		-1.03										
CAL2B-CALIBRATION PISTON	0.29	-1.32	-0.26		-1.40	0.30		0.56										
MAXIMUM	1.80	1.92	1.73	-0.43	-1.72	3.54	2.76	-2.18	-1.55	-0.91	1.25	1.85	0.90	1.47	-0.39	-0.41	-0.04	
MINIMUM	0.01	0.03	0.08	-0.15	-0.30	0.04	-0.56	-0.17	-0.66	0.18	0.34	0.36	0.00	1.47	-0.39	-0.41	-0.04	
RANGE(MAX-MIN)	1.790	1.890	1.650	-0.280	-1.420	3.500	3.320	-2.010	-0.890	-1.090	0.910	1.490	0.900	0.000	0.000	0.000	0.000	
MEAN	0.145	-0.042	0.225	-0.345	-0.115	0.706	1.475	-0.196	-1.105	-0.165	0.975	0.273	0.068	1.470	-0.390	-0.410	-0.040	
STANDARD DEVIATION	0.937	1.012	0.883	0.131	1.054	1.200	1.244	1.179	0.629	0.770	0.431	1.139	0.580	0.000	0.000	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Caproni, David

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.52	
ISMRC-ISM ROCKER COVER	0.28	
SCAL1-VG TC COVER CAL	0.11	
SCAL2-VG TC COVER CAL	0.14	
MAXIMUM	0.52	
MINIMUM	0.11	
RANGE(MAX-MIN)	0.410	
MEAN	0.263	
STANDARD DEVIATION	0.187	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Castillo, George

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	-0.97	-0.45	-0.93	-1.06	-0.62	1.39	1.18	-0.74									
A2-KEystone	-0.10	-1.57	1.76		-1.18	1.68		-0.56	1.62	1.39	-0.40	0.70	0.00				
A3-C13-STYLE	0.10	0.65	1.29		-0.97	1.31	1.51	0.38		-0.84		0.30	-0.47	0.35			
A4-SQUARE CUT	-0.25	-0.27	-0.49	-0.36	-1.76	2.02	0.86	0.47									
A5-SEQUENCE III	-0.46	-0.83	0.19		-0.43	-0.29					-0.74				1.20	0.66	
A6-ARTICULATED 2-PIECE	-0.59	-0.23	2.54		-0.44	1.46	0.62	-0.41		-0.72	0.80	0.09	0.00				0.08
B1-SQUARE CUT	-0.44	0.51	-0.33	0.01	-0.31	1.52	0.60	0.54									
B2-KEystone	0.16	-0.37	1.40		-0.99	1.19		-0.29	2.39	1.53	-0.94	-0.89	-0.22				
B3-C13-STYLE	-0.30	-0.27	1.03		-0.67	0.15	0.50	0.31		-1.03		-0.05	-0.79	-0.28			
B4-SQUARE CUT	-0.51	1.08	0.88	-0.26	-0.41	0.36	0.66	-0.33									
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE																	
C1-SQUARE CUT																	
C2-KEystone																	
C3-C13-STYLE																	
C4-SQUARE CUT																	
C5-SEQUENCE III																	
C6-ARTICULATED 2-PIECE																	
CAL1A-CALIBRATION PISTON	-0.20	0.22	-0.73		-0.38	0.88		0.81									
CAL1B-CALIBRATION PISTON	-0.31	0.09	1.73		-0.60	1.29		0.73									
CAL2A-CALIBRATION PISTON	-0.67	0.15	-0.92		-1.38	0.02		1.03									
CAL2B-CALIBRATION PISTON	-0.38	0.85	-0.70		-1.49	0.78		0.13									
MAXIMUM	-0.97	-1.57	2.54	-1.06	-1.76	2.02	1.51	1.03	2.39	1.53	-0.94	-0.89	-0.79	0.35	1.20	0.66	0.08
MINIMUM	-0.10	0.09	0.19	0.01	-0.31	0.02	0.50	0.13	1.62	-0.72	-0.40	-0.05	0.00	-0.28	1.20	0.66	0.08
RANGE(MAX-MIN)	-0.870	-1.660	2.350	-1.070	-1.450	2.000	1.010	0.900	0.770	2.250	-0.540	-0.840	-0.790	0.630	0.000	0.000	0.000
MEAN	-0.351	-0.031	0.480	-0.418	-0.831	0.983	0.847	0.159	2.005	0.066	-0.320	0.030	-0.296	0.035	1.200	0.660	0.080
STANDARD DEVIATION	0.298	0.698	1.173	0.456	0.469	0.689	0.369	0.571	0.544	1.278	0.779	0.587	0.337	0.445	0.000	0.000	0.000

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Castillo, George

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-0.93	
ISMRC-ISM ROCKER COVER	-1.43	
SCAL1-VG TC COVER CAL	-0.45	
SCAL2-VG TC COVER CAL	-0.38	
MAXIMUM	-1.43	
MINIMUM	-0.38	
RANGE(MAX-MIN)	-1.050	
MEAN	-0.798	
STANDARD DEVIATION	0.487	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Castillo, George

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	1.64	0.06	-0.20	0.15	0.00	1.34	
E-C13 2ND RING CARBON	-0.22	-0.55	1.56	0.23	0.00	1.50	
F-C13 2ND RING CARBON	1.49	1.08	-0.04	0.57	-0.43	1.13	
J-C13 2ND RING CARBON CALIBRATION	0.26	-0.94	-0.04	-0.94	-0.94	-0.83	
MAXIMUM	1.64	1.08	1.56	0.57	-0.94	1.50	
MINIMUM	-0.22	0.06	-0.04	-0.04	0.00	-0.83	
RANGE(MAX-MIN)	1.860	1.020	1.600	0.610	-0.940	2.330	
MEAN	0.585	0.213	0.095	0.228	-0.343	0.785	
STANDARD DEVIATION	1.142	0.673	1.052	0.255	0.447	1.087	



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Clapperty, Leon

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	-1.76	-1.29	0.38	0.67	-0.75	-0.71	-0.76	-0.28										
A2-KEYSTONE	-1.04	-0.85	-0.61		-1.81	-0.89		1.66	-0.95	-0.61	-1.02	-1.15	0.00					
A3-C13-STYLE	0.06	0.63	-1.12		-1.38	-1.22	-0.90	0.03		0.48		0.30	0.57	0.50				
A4-SQUARE CUT	-0.94	0.39	0.37	-0.18	0.40	-0.42	-0.80	0.47										
A5-SEQUENCE III	-0.65	-0.83	-0.22		-1.44	-0.29					-1.03				-0.21	-0.35		
A6-ARTICULATED 2-PIECE	2.98	-0.63	-0.84		-1.03	-0.83	-0.76	2.47		-1.06	-1.35	2.60	0.00				0.34	
B1-SQUARE CUT																		
B2-KEYSTONE																		
B3-C13-STYLE																		
B4-SQUARE CUT																		
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT																		
C2-KEYSTONE	-0.61	1.02	-1.02		-1.62	-2.05		-0.12	-1.29	1.58	-2.12	1.72	2.35					
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	-0.76	-0.04	0.16		-0.14	-1.36		0.51										
CAL1B-CALIBRATION PISTON	-0.56	-0.04	-1.26		-0.68	-1.17		0.62										
CAL2A-CALIBRATION PISTON	-0.60	-0.81	-0.32		0.67	-1.96		0.60										
CAL2B-CALIBRATION PISTON	-0.87	1.22	0.43		0.07	-1.43		0.42										
MAXIMUM	2.98	-1.29	-1.26	0.67	-1.81	-2.05	-0.90	2.47	-1.29	1.58	-2.12	2.60	2.35	0.50	-0.21	-0.35	0.34	
MINIMUM	0.06	-0.04	0.16	-0.18	0.07	-0.29	-0.76	0.03	-0.95	0.48	-1.02	0.30	0.00	0.50	-0.21	-0.35	0.34	
RANGE(MAX-MIN)	2.920	-1.250	-1.420	0.850	-1.880	-1.760	-0.140	2.440	-0.340	1.100	-1.100	2.300	2.350	0.000	0.000	0.000	0.000	
MEAN	-0.432	-0.112	-0.368	0.245	-0.701	-1.121	-0.805	0.638	-1.120	0.098	-1.380	0.868	0.730	0.500	-0.210	-0.350	0.340	
STANDARD DEVIATION	1.212	0.841	0.641	0.601	0.848	0.568	0.066	0.835	0.240	1.181	0.517	1.645	1.113	0.000	0.000	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Clapperty, Leon

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.39	
ISMRC-ISM ROCKER COVER	0.06	
SCAL1-VG TC COVER CAL	0.57	
SCAL2-VG TC COVER CAL	1.43	
MAXIMUM	1.43	
MINIMUM	0.06	
RANGE(MAX-MIN)	1.370	
MEAN	0.613	
STANDARD DEVIATION	0.584	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Engelskirchen, Jim

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	0.35	-0.45	0.13	-0.29	-0.55	0.07	-0.03	-0.05									
A2-KEystone	-0.96	-1.06	-0.89		0.84	-0.92		-1.58	-1.04	-1.15	-1.25	-0.23	0.00				
A3-C13-STYLE	-1.32	-1.22	-1.69		1.30	-0.37	-1.34	-2.19		-1.00		-1.36	-0.47	-1.28			
A4-SQUARE CUT	1.41	-1.08	-0.01	-0.65	-1.61	0.80	0.66	-1.22									
A5-SEQUENCE III																	
A6-ARTICULATED 2-PIECE	-0.37	-1.21	-0.20		-1.64	-1.46	0.06	-0.94		-1.55	-1.42	-0.85	0.00				0.52
B1-SQUARE CUT																	
B2-KEystone																	
B3-C13-STYLE																	
B4-SQUARE CUT																	
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE																	
C1-SQUARE CUT	-0.92	-0.50	-0.49	-0.15	-0.14	-0.22	-0.45	-0.95									
C2-KEystone																	
C3-C13-STYLE																	
C4-SQUARE CUT																	
C5-SEQUENCE III																	
C6-ARTICULATED 2-PIECE																	
CAL1A-CALIBRATION PISTON	0.40	0.31	0.16		0.27	-0.42		0.66									
CAL1B-CALIBRATION PISTON	0.43	-0.08	-0.35		-0.55	0.47		0.50									
CAL2A-CALIBRATION PISTON	-0.43	0.17	0.08		1.73	0.33		-1.79									
CAL2B-CALIBRATION PISTON	1.16	2.16	0.60		0.45	-0.32		-1.01									
MAXIMUM	1.41	2.16	-1.69	-0.65	1.73	-1.46	-1.34	-2.19	-1.04	-1.55	-1.42	-1.36	-0.47	-1.28			0.52
MINIMUM	0.35	-0.08	-0.01	-0.15	-0.14	0.07	-0.03	-0.05	-1.04	-1.00	-1.25	-0.23	0.00	-1.28			0.52
RANGE(MAX-MIN)	1.060	2.240	-1.680	-0.500	1.870	-1.530	-1.310	-2.140	0.000	-0.550	-0.170	-1.130	-0.470	0.000			0.000
MEAN	-0.025	-0.296	-0.266	-0.363	0.010	-0.204	-0.220	-0.857	-1.040	-1.233	-1.335	-0.813	-0.157	-1.280			0.520
STANDARD DEVIATION	0.921	1.034	0.646	0.258	1.134	0.667	0.741	0.951	0.000	0.284	0.120	0.566	0.271	0.000			0.000

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Engelskirchen, Jim

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN		
ISMRC-ISM ROCKER COVER		
SCAL1-VG TC COVER CAL	-0.10	
SCAL2-VG TC COVER CAL	-0.19	
MAXIMUM	-0.19	
MINIMUM	-0.10	
RANGE(MAX-MIN)	-0.090	
MEAN	-0.145	
STANDARD DEVIATION	0.064	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Foecking, Brian

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	-0.53	-0.39	-0.99	-1.06	-0.67	-0.48	-0.92	-1.20									
A2-KEystone	-0.10	-0.22	-0.70		-0.11	-1.25		-0.90	-0.22	-0.86	-0.25	-1.15	0.00				
A3-C13-STYLE																	
A4-SQUARE CUT	-0.03	0.05	-1.45	-0.95	-1.03	-0.86	-0.93	-0.32									
A5-SEQUENCE III	0.14	0.73	-0.50		-1.24	-0.29					0.62				0.75	1.08	
A6-ARTICULATED 2-PIECE																	
B1-SQUARE CUT																	
B2-KEYSTONE																	
B3-C13-STYLE																	
B4-SQUARE CUT																	
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE																	
C1-SQUARE CUT	-0.21	2.10	-0.11	-1.03	-0.69	-0.21	0.30	-0.95									
C2-KEYSTONE	-0.66	-0.66	-0.23		-0.29	-0.59		-0.85	0.39	-0.22	-0.84	0.00	-0.55				
C3-C13-STYLE	-1.20	0.60	-0.63		0.05	-0.11	-0.62	-0.58		-0.48		-0.07	2.25	-0.04			
C4-SQUARE CUT	-0.30	0.16	-1.17	-0.89	-1.38	-0.25	-0.35	0.80									
C5-SEQUENCE III	-0.64	0.42	-0.58		0.52	-0.33					0.88				0.76	-0.21	
C6-ARTICULATED 2-PIECE	0.54	0.35	-0.42		-0.23	0.17	-0.43	-0.68		-0.38	-1.25	0.36	0.00				
CAL1A-CALIBRATION PISTON	0.14	1.17	-0.84		-0.12	0.93		-0.09									0.42
CAL1B-CALIBRATION PISTON	-0.75	-0.01	0.77		-0.37	1.29		-1.01									
CAL2A-CALIBRATION PISTON	-0.71	-0.09	-1.02		-0.64	-0.88		-1.36									
CAL2B-CALIBRATION PISTON	-2.08	-0.11	-1.04		-0.90	0.70		-0.73									
MAXIMUM	-2.08	2.10	-1.45	-1.06	-1.38	1.29	-0.93	-1.36	0.39	-0.86	-1.25	-1.15	2.25	-0.04	0.76	1.08	0.42
MINIMUM	-0.03	-0.01	-0.11	-0.89	0.05	-0.11	0.30	-0.09	-0.22	-0.22	-0.25	0.00	0.00	-0.04	0.75	-0.21	0.42
RANGE(MAX-MIN)	-2.050	2.110	-1.340	-0.170	-1.430	1.400	-1.230	-1.270	0.610	-0.640	-1.000	-1.150	2.250	0.000	0.010	1.290	0.000
MEAN	-0.456	0.293	-0.636	-0.983	-0.507	-0.154	-0.492	-0.656	0.085	-0.485	-0.168	-0.215	0.425	-0.040	0.755	0.435	0.420
STANDARD DEVIATION	0.652	0.705	0.549	0.077	0.528	0.717	0.457	0.577	0.431	0.272	0.915	0.651	1.244	0.000	0.007	0.912	0.000

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Foecking, Brian

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.42	
ISMRC-ISM ROCKER COVER	0.15	
SCAL1-VG TC COVER CAL	-0.72	
SCAL2-VG TC COVER CAL	-0.25	
MAXIMUM	-0.72	
MINIMUM	0.15	
RANGE(MAX-MIN)	-0.870	
MEAN	-0.100	
STANDARD DEVIATION	0.497	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Greenland, Paul

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT																		
B2-KEYSTONE																		
B3-C13-STYLE																		
B4-SQUARE CUT																		
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT	-0.11	-0.68	0.28	1.31	-0.08	0.04	0.97	0.09										
C2-KEYSTONE	-0.02	-2.34	1.29		0.04	0.52		-0.56	-0.45	-1.40	1.90	1.17	-0.55					
C3-C13-STYLE	1.15	-0.21	0.05		0.27	-0.01	0.46	0.18		-0.39		-0.07	-0.41	0.54				
C4-SQUARE CUT	0.57	-0.21	0.74	0.97	0.82	0.52	1.02	0.67										
C5-SEQUENCE III	-0.58	-1.21	0.35		-0.06	-0.33					0.90				-0.15	-0.74		
C6-ARTICULATED 2-PIECE	-0.32	0.22	1.96		-2.00	-2.43	-0.21	-0.17		-1.07	0.15	0.36	0.00				0.09	
CAL1A-CALIBRATION PISTON	0.31	-0.90	0.16		0.02	0.60		0.66										
CAL1B-CALIBRATION PISTON	0.01	-0.18	0.74		-0.43	0.27		0.50										
CAL2A-CALIBRATION PISTON	-0.06	-0.12	0.08		-0.81	0.45		1.03										
CAL2B-CALIBRATION PISTON	0.39	-0.17	0.60		0.46	0.63		-0.30										
MAXIMUM	1.15	-2.34	1.96	1.31	-2.00	-2.43	1.02	1.03	-0.45	-1.40	1.90	1.17	-0.55	0.54	-0.15	-0.74	0.09	
MINIMUM	0.01	-0.12	0.05	0.97	0.02	-0.01	-0.21	0.09	-0.45	-0.39	0.15	-0.07	0.00	0.54	-0.15	-0.74	0.09	
RANGE(MAX-MIN)	1.140	-2.220	1.910	0.340	-2.020	-2.420	1.230	0.940	0.000	-1.010	1.750	1.240	-0.550	0.000	0.000	0.000	0.000	
MEAN	0.134	-0.580	0.625	1.140	-0.177	0.026	0.560	0.233	-0.450	-0.953	0.983	0.487	-0.320	0.540	-0.150	-0.740	0.090	
STANDARD DEVIATION	0.491	0.750	0.605	0.240	0.781	0.918	0.572	0.522	0.000	0.515	0.878	0.630	0.286	0.000	0.000	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Greenland, Paul

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.84	
ISMRC-ISM ROCKER COVER	1.20	
SCAL1-VG TC COVER CAL	0.00	
SCAL2-VG TC COVER CAL	-0.57	
MAXIMUM	1.20	
MINIMUM	0.00	
RANGE(MAX-MIN)	1.200	
MEAN	0.368	
STANDARD DEVIATION	0.802	



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Guarda, Waldyr

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	0.93	2.74	0.75	2.59	-0.09	0.07	-0.17	-0.51									
A2-KEYSTONE																	
A3-C13-STYLE																	
A4-SQUARE CUT																	
A5-SEQUENCE III																	
A6-ARTICULATED 2-PIECE																	
B1-SQUARE CUT																	
B2-KEYSTONE																	
B3-C13-STYLE																	
B4-SQUARE CUT																	
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE																	
C1-SQUARE CUT	0.53	0.78	0.15	0.82	-0.75	-0.33	-0.45	0.09									
C2-KEYSTONE	-0.23	1.03	-1.71		1.88	0.83		-0.02	2.48	0.51	0.96	-0.55	0.41				
C3-C13-STYLE	-1.43	0.37	1.69		1.45	1.39	0.62	1.51		2.43		-0.07	2.25	1.00			
C4-SQUARE CUT	0.25	-0.89	0.40	0.28	1.25	0.73	-0.56	0.39									
C5-SEQUENCE III	0.38	-1.08	-0.63		-0.59	1.14					1.10				0.65	-0.08	
C6-ARTICULATED 2-PIECE	0.25	1.74	-0.03		1.87	1.12	0.80	2.88		1.14	1.03	2.65	0.00				-2.43
CAL1A-CALIBRATION PISTON	0.40	0.17	-0.89		-0.15	0.02		-1.00									
CAL1B-CALIBRATION PISTON	-0.42	-0.40	0.59		-0.09	0.92		-0.08									
CAL2A-CALIBRATION PISTON	-0.73	-0.58	-0.42		0.67	0.94		-0.49									
CAL2B-CALIBRATION PISTON	1.29	-0.08	0.60		0.55	2.91		1.84									
MAXIMUM	-1.43	2.74	-1.71	2.59	1.88	2.91	0.80	2.88	2.48	2.43	1.10	2.65	2.25	1.00	0.65	-0.08	-2.43
MINIMUM	-0.23	-0.08	-0.03	0.28	-0.09	0.02	-0.17	-0.02	2.48	0.51	0.96	-0.07	0.00	1.00	0.65	-0.08	-2.43
RANGE(MAX-MIN)	-1.200	2.820	-1.680	2.310	1.970	2.890	0.970	2.900	0.000	1.920	0.140	2.720	2.250	0.000	0.000	0.000	0.000
MEAN	0.111	0.345	0.045	1.230	0.545	0.885	0.048	0.461	2.480	1.360	1.030	0.677	0.887	1.000	0.650	-0.080	-2.430
STANDARD DEVIATION	0.769	1.163	0.926	1.208	0.955	0.860	0.624	1.225	0.000	0.979	0.070	1.726	1.198	0.000	0.000	0.000	0.000

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Guarda, Waldyr

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-1.25	
ISMRC-ISM ROCKER COVER	-1.08	
SCAL1-VG TC COVER CAL	-0.26	
SCAL2-VG TC COVER CAL	-1.99	
MAXIMUM	-1.99	
MINIMUM	-0.26	
RANGE(MAX-MIN)	-1.730	
MEAN	-1.145	
STANDARD DEVIATION	0.710	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Guarda, Waldyr

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	-0.88	-2.26	1.89	0.15	2.08	0.21	
E-C13 2ND RING CARBON	-0.22	-0.03	0.52	-0.23	0.48	0.64	
F-C13 2ND RING CARBON	-0.26	1.08	0.28	1.49	0.85	1.13	
J-C13 2ND RING CARBON CALIBRATION	0.10	0.26	-0.76	-1.31	-0.63	-0.03	
MAXIMUM	-0.88	-2.26	1.89	1.49	2.08	1.13	
MINIMUM	-0.22	-0.03	0.28	0.15	0.48	-0.03	
RANGE(MAX-MIN)	-0.660	-2.230	1.610	1.340	1.600	1.160	
MEAN	-0.438	-0.238	0.483	0.025	0.695	0.488	
STANDARD DEVIATION	0.304	1.428	1.090	1.156	1.117	0.510	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Gutzwiller, Jim

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	2.14	-0.94	-0.87	-1.06	0.57	0.01	-0.17	2.25									
A2-KEystone																	
A3-C13-STYLE	1.61	0.15	-0.95		2.13	-0.90	0.50	0.97		1.70		-1.36	2.13	-0.24			
A4-SQUARE CUT																	
A5-SEQUENCE III																	
A6-ARTICULATED 2-PIECE																	
B1-SQUARE CUT																	
B2-KEystone																	
B3-C13-STYLE																	
B4-SQUARE CUT																	
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE																	
C1-SQUARE CUT																	
C2-KEystone																	
C3-C13-STYLE																	
C4-SQUARE CUT																	
C5-SEQUENCE III																	
C6-ARTICULATED 2-PIECE																	
CAL1A-CALIBRATION PISTON	0.77	-0.50	0.31		-0.12	-0.36		1.19									
CAL1B-CALIBRATION PISTON	0.77	-0.57	0.77		-0.14	-0.45		1.32									
CAL2A-CALIBRATION PISTON	0.66	4.17	-0.87		0.83	0.72		0.49									
CAL2B-CALIBRATION PISTON	1.55	0.18	-0.26		-0.90	1.12		0.70									
MAXIMUM	2.14	4.17	-0.95	-1.06	2.13	1.12	0.50	2.25		1.70		-1.36	2.13	-0.24			
MINIMUM	0.66	0.15	-0.26	-1.06	-0.12	0.01	-0.17	0.49		1.70		-1.36	2.13	-0.24			
RANGE(MAX-MIN)	1.480	4.020	-0.690	0.000	2.250	1.110	0.670	1.760		0.000		0.000	0.000	0.000			
MEAN	1.250	0.415	-0.312	-1.060	0.395	0.023	0.165	1.153		1.700		-1.360	2.130	-0.240			
STANDARD DEVIATION	0.603	1.890	0.720	0.000	1.045	0.763	0.474	0.618		0.000		0.000	0.000	0.000			

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Gutzwiller, Jim

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN		
ISMRC-ISM ROCKER COVER		
SCAL1-VG TC COVER CAL	1.78	
SCAL2-VG TC COVER CAL	0.26	
MAXIMUM	1.78	
MINIMUM	0.26	
RANGE(MAX-MIN)	1.520	
MEAN	1.020	
STANDARD DEVIATION	1.075	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Gutzwiller, Jim

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON							
E-C13 2ND RING CARBON							
F-C13 2ND RING CARBON							
J-C13 2ND RING CARBON CALIBRATION		2.33	1.12	0.39	1.09	0.84	
MAXIMUM	0.55	2.33	1.12	0.39	1.09	0.84	
MINIMUM	0.55	2.33	1.12	0.39	1.09	0.84	
RANGE(MAX-MIN)	0.000	0.000	0.000	0.000	0.000	0.000	
MEAN	0.550	2.330	1.120	0.390	1.090	0.840	
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Hill, Howard

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.67	-0.60	-0.44	-0.61	-0.45	-0.80	-0.50	0.42										
B2-KEYSTONE	-1.56	-0.37	0.48		-0.57	-0.75		-0.65	-0.77	-1.94	0.59	0.88	-0.22					
B3-C13-STYLE	0.04	-0.10	0.07		-0.90	-1.11	1.26	-0.37		1.10		-0.05	1.49	-0.11				
B4-SQUARE CUT	-0.38	-0.45	-0.01	0.26	-0.16	-0.01	-0.31	0.44										
B5-1-SEQ V PISTONS(TH ONLY)																		0.41
B5-2-SEQ V PISTONS(TH ONLY)																		0.56
B5-3-SEQ V PISTONS(TH ONLY)																		1.04
B5-4-SEQ V PISTONS(TH ONLY)																		1.19
B5-5-SEQ V PISTONS(TH ONLY)																		1.00
B5-6-SEQ V PISTONS(TH ONLY)																		1.09
B5-7-SEQ V PISTONS(TH ONLY)																		1.41
B5-8-SEQ V PISTONS(TH ONLY)																		1.26
B6-ARTICULATED 2-PIECE	0.82	0.56	-0.40		0.64	0.99	-0.76	-0.15		-0.42	0.07	0.00	-0.50					0.86
C1-SQUARE CUT	0.70	-2.00	-0.88	-0.83	0.46	-0.42	-1.03	-0.61										
C2-KEYSTONE	-0.54	0.18	0.49		-0.61	-0.28		-0.02	-0.01	-1.63	0.51	0.70	-0.55					
C3-C13-STYLE	-0.57	-0.39	0.69		-1.11	0.50	0.95	0.75		0.72		-2.00	-0.41	0.19				
C4-SQUARE CUT	0.15	-1.75	0.40	-0.27	0.85	-1.77	-1.47	1.22										
C5-SEQUENCE III	-0.71	-1.21	2.38		-0.07	-0.33					-1.17				2.68	1.69		
C6-ARTICULATED 2-PIECE	-0.59	-0.45	0.11		0.42	1.15	0.08	-0.17		-0.54	0.04	-0.78	0.00					-0.51
CAL1A-CALIBRATION PISTON	-0.18	-2.49	-0.78		0.37	1.81		0.59										
CAL1B-CALIBRATION PISTON	-0.77	-0.55	-0.61		0.56	1.17		1.20										
CAL2A-CALIBRATION PISTON	-0.21	-0.99	3.97		0.40	1.46		0.49										
CAL2B-CALIBRATION PISTON	0.05	-0.85	-0.96		0.56	0.11		0.42										
MAXIMUM	-1.56	-2.49	3.97	-0.83	-1.11	1.81	-1.47	1.22	-0.77	-1.94	-1.17	-2.00	1.49	0.19	2.68	1.69	0.86	
MINIMUM	0.04	-0.10	-0.01	0.26	-0.07	-0.01	0.08	-0.02	-0.01	-0.42	0.04	0.00	0.00	-0.11	0.41	1.69	-0.51	
RANGE(MAX-MIN)	-1.600	-2.390	3.980	-1.090	-1.040	1.820	-1.550	1.240	-0.760	-1.520	-1.210	-2.000	1.490	0.300	2.270	0.000	1.370	
MEAN	-0.205	-0.764	0.301	-0.363	0.026	0.115	-0.223	0.254	-0.390	-0.452	0.008	-0.208	-0.032	0.040	1.182	1.690	0.175	
STANDARD DEVIATION	0.639	0.819	1.315	0.475	0.621	1.038	0.945	0.602	0.537	1.216	0.704	1.060	0.772	0.212	0.647	0.000	0.969	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Hill, Howard

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-0.80	
ISMRC-ISM ROCKER COVER	-0.29	
SCAL1-VG TC COVER CAL	0.43	
SCAL2-VG TC COVER CAL	-1.80	
MAXIMUM	-1.80	
MINIMUM	-0.29	
RANGE(MAX-MIN)	-1.510	
MEAN	-0.615	
STANDARD DEVIATION	0.937	



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Hills, Barry

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	0.41	-0.28	-0.49	-0.29	-0.29	-0.21	0.20	0.18										
A2-KEYSTONE	-0.10	0.18	-0.61		1.00	-0.06		0.98	-0.38	0.90	-1.14	2.25	0.00					
A3-C13-STYLE	1.03	0.31	0.07		0.09	-0.45	-0.82	1.20		0.08		1.96	0.05	1.69				
A4-SQUARE CUT	-0.03	-0.56	-0.01	-0.24	1.27	-1.25	-1.16	-0.77										
A5-SEQUENCE III	-0.46	-2.07	-1.79		-0.36	-0.29					-2.50				-0.59	-0.77		
A6-ARTICULATED 2-PIECE	-0.80	0.27	0.02		-0.35	0.42	-1.07	0.50		1.85	1.25	0.40	0.00				0.51	
B1-SQUARE CUT	0.36	-1.34	-0.85	-0.79	0.40	-0.36	-1.01	0.79										
B2-KEYSTONE	-0.34	-0.37	-1.05		-0.14	-2.37		0.31	0.28	0.59	-0.80	-1.43	-0.22					
B3-C13-STYLE	0.00	-1.39	-0.50		-1.56	-0.47	-1.00	-0.03		0.05		-0.05	-0.28	-0.62				
B4-SQUARE CUT	-0.47	-0.90	-1.20	-0.83	1.63	-1.67	-1.69	-0.66										
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	1.10	0.50	0.16		2.65	0.57		-0.09										
CAL1B-CALIBRATION PISTON	-0.03	0.21	-0.61		2.12	0.37		1.66										
CAL2A-CALIBRATION PISTON	1.31	0.23	-0.42		3.17	-0.40		1.14										
CAL2B-CALIBRATION PISTON	0.65	-1.50	0.60		1.35	-0.14		-0.16										
MAXIMUM	1.31	-2.07	-1.79	-0.83	3.17	-2.37	-1.69	1.66	-0.38	1.85	-2.50	2.25	-0.28	1.69	-0.59	-0.77	0.51	
MINIMUM	0.00	0.18	-0.01	-0.24	0.09	-0.06	0.20	-0.03	0.28	0.05	-0.80	-0.05	0.00	-0.62	-0.59	-0.77	0.51	
RANGE(MAX-MIN)	1.310	-2.250	-1.780	-0.590	3.080	-2.310	-1.890	1.690	-0.660	1.800	-1.700	2.300	-0.280	2.310	0.000	0.000	0.000	
MEAN	0.188	-0.479	-0.477	-0.538	0.784	-0.451	-0.936	0.388	-0.050	0.694	-0.798	0.626	-0.090	0.535	-0.590	-0.770	0.510	
STANDARD DEVIATION	0.645	0.829	0.625	0.316	1.330	0.815	0.570	0.739	0.467	0.738	1.550	1.513	0.149	1.633	0.000	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Hills, Barry

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.07	
ISMRC-ISM ROCKER COVER	-0.07	
SCAL1-VG TC COVER CAL	0.65	
SCAL2-VG TC COVER CAL	0.46	
MAXIMUM	0.65	
MINIMUM	0.07	
RANGE(MAX-MIN)	0.580	
MEAN	0.278	
STANDARD DEVIATION	0.335	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Holland, Steve

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT		
A1-SQUARE CUT																			
A2-KEYSTONE																			
A3-C13-STYLE																			
A4-SQUARE CUT																			
A5-SEQUENCE III																			
A6-ARTICULATED 2-PIECE																			
B1-SQUARE CUT	0.88	0.25	0.18	0.26	-0.15	0.15	0.28	1.03											
B2-KEYSTONE	-0.34	-0.37	-0.24		-0.58	0.43		0.07	0.05	0.61	-0.89	-0.04	-0.22						
B3-C13-STYLE	-0.59	-0.70	-0.72		-1.08	-0.19	0.50	-0.20		-0.11		1.44	-0.03	-0.28					
B4-SQUARE CUT	-0.32	-1.53	-1.05	-0.13	-0.40	-0.63	-0.01	-0.33											
B5-1-SEQ V PISTONS(TH ONLY)																			
B5-2-SEQ V PISTONS(TH ONLY)																			
B5-3-SEQ V PISTONS(TH ONLY)																			
B5-4-SEQ V PISTONS(TH ONLY)																			
B5-5-SEQ V PISTONS(TH ONLY)																			
B5-6-SEQ V PISTONS(TH ONLY)																			
B5-7-SEQ V PISTONS(TH ONLY)																			
B5-8-SEQ V PISTONS(TH ONLY)																			
B6-ARTICULATED 2-PIECE																			
C1-SQUARE CUT	-0.07	0.48	0.28	-0.83	-1.23	0.35	0.80	0.78											
C2-KEYSTONE	-0.70	1.02	-0.16		-0.05	0.31		-0.66	-0.42	-0.78	-0.74	0.31	-0.55						
C3-C13-STYLE	0.11	0.09	0.34		0.91	0.87	0.78	-0.67		-1.24		-0.07	-0.41	-0.04					
C4-SQUARE CUT	0.85	0.81	1.90	0.28	0.15	0.64	0.25	0.39											
C5-SEQUENCE III	-0.06	1.29	0.55		0.31	-0.33					-0.78				0.03	0.15			
C6-ARTICULATED 2-PIECE	-1.70	-1.31	0.16		-0.57	-0.57	-0.32	-0.17		-1.27	-2.54	-0.78	0.00						
CAL1A-CALIBRATION PISTON	0.28	-0.60	-0.37		-0.22	0.19		-0.24											-0.75
CAL1B-CALIBRATION PISTON	-0.03	0.01	0.04		-0.68	0.23		0.62											
CAL2A-CALIBRATION PISTON	-0.96	-0.22	-0.62		-0.64	-0.25		-0.16											
CAL2B-CALIBRATION PISTON	0.32	0.23	-0.26		-1.33	-0.11		-0.01											
MAXIMUM	-1.70	-1.53	1.90	-0.83	-1.33	0.87	0.80	1.03	-0.42	-1.27	-2.54	1.44	-0.55	-0.28	0.03	0.15	-0.75		
MINIMUM	-0.03	0.01	0.04	-0.13	-0.05	-0.11	-0.01	-0.01	0.05	-0.11	-0.74	-0.04	0.00	-0.04	0.03	0.15	-0.75		
RANGE(MAX-MIN)	-1.670	-1.540	1.860	-0.700	-1.280	0.980	0.810	1.040	-0.470	-1.160	-1.800	1.480	-0.550	-0.240	0.000	0.000	0.000		
MEAN	-0.166	-0.039	0.002	-0.105	-0.397	0.078	0.326	0.035	-0.185	-0.558	-1.238	0.172	-0.242	-0.160	0.030	0.150	-0.750		
STANDARD DEVIATION	0.689	0.822	0.705	0.519	0.617	0.442	0.408	0.528	0.332	0.804	0.871	0.812	0.238	0.170	0.000	0.000	0.000		

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Holland, Steve

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-0.71	
ISMRC-ISM ROCKER COVER	-0.47	
SCAL1-VG TC COVER CAL	0.62	
SCAL2-VG TC COVER CAL	0.39	
MAXIMUM	-0.71	
MINIMUM	0.39	
RANGE(MAX-MIN)	-1.100	
MEAN	-0.043	
STANDARD DEVIATION	0.647	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Kobrinetz, Jack

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	-1.38	0.46	-0.31	-0.01	-0.43	-0.86	-0.69	-0.74										
A2-KEystone	-0.10	0.11	-0.61		0.57	-0.67		0.29	-1.15	-0.18	0.28	0.08	0.00					
A3-C13-STYLE	0.91	-1.33	0.44		-0.01	-0.67	0.07	0.27		-0.94		0.30	-0.99	0.20				
A4-SQUARE CUT	0.28	0.00	-1.06	-0.24	0.90	-0.67	-0.93	0.35										
A5-SEQUENCE III	-0.48	0.26	0.03		-0.39	-0.29					0.44				-0.98	-0.53		
A6-ARTICULATED 2-PIECE	-0.05	0.50	-0.05		-0.63	-0.24	0.09	0.37		0.51	0.49	-0.22	0.00				-0.41	
B1-SQUARE CUT																		
B2-KEystone																		
B3-C13-STYLE																		
B4-SQUARE CUT																		
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT	0.87	-0.31	-0.49	-0.05	1.51	-0.52	-0.70	-0.95										
C2-KEystone	-0.61	-0.22	0.25		-0.42	0.17		-0.56	-0.94	0.00	-0.05	-0.55	-0.55					
C3-C13-STYLE	-0.67	-0.83	0.33		0.03	0.23	0.59	-0.29		0.19		-1.04	-0.41	0.07				
C4-SQUARE CUT	-0.11	0.54	-0.62	-0.06	-0.28	-0.88	-1.08	0.11										
C5-SEQUENCE III	-0.60	0.29	-0.86		-0.74	-0.33					1.07				-1.37	-0.51		
C6-ARTICULATED 2-PIECE	0.79	0.29	-0.66		0.20	-0.14	-0.67	-0.68		0.29	0.62	-0.55	0.00				0.91	
CAL1A-CALIBRATION PISTON	0.48	0.31	-0.37		-0.28	1.65		0.74										
CAL1B-CALIBRATION PISTON	-0.18	-0.11	0.22		-0.37	0.46		-0.20										
CAL2A-CALIBRATION PISTON	-0.04	-0.27	1.08		0.22	-1.29		0.16										
CAL2B-CALIBRATION PISTON	-0.51	-0.20	-0.26		0.70	0.11		-0.44										
MAXIMUM	-1.38	-1.33	1.08	-0.24	1.51	1.65	-1.08	-0.95	-1.15	-0.94	1.07	-1.04	-0.99	0.20	-1.37	-0.53	0.91	
MINIMUM	-0.04	0.00	0.03	-0.01	-0.01	0.11	0.07	0.11	-0.94	0.00	-0.05	0.08	0.00	0.07	-0.98	-0.51	-0.41	
RANGE(MAX-MIN)	-1.340	-1.330	1.050	-0.230	1.520	1.540	-1.150	-1.060	-0.210	-0.940	1.120	-1.120	-0.990	0.130	-0.390	-0.020	1.320	
MEAN	-0.088	-0.032	-0.184	-0.090	0.036	-0.246	-0.415	-0.112	-1.045	-0.022	0.475	-0.330	-0.325	0.135	-1.175	-0.520	0.250	
STANDARD DEVIATION	0.634	0.504	0.556	0.102	0.618	0.689	0.589	0.509	0.148	0.509	0.372	0.485	0.404	0.092	0.276	0.014	0.933	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Kobrinetz, Jack

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.10	
ISMRC-ISM ROCKER COVER	-0.25	
SCAL1-VG TC COVER CAL	0.19	
SCAL2-VG TC COVER CAL	0.26	
MAXIMUM	0.26	
MINIMUM	0.10	
RANGE(MAX-MIN)	0.160	
MEAN	0.075	
STANDARD DEVIATION	0.226	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Kobrinetz, Jack

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	-0.88	0.94	-0.72	-1.05	-1.04	-0.35	
E-C13 2ND RING CARBON	0.59	-0.03	0.17	0.57	0.48	-0.21	
F-C13 2ND RING CARBON	0.09	-0.54	-1.98	-0.34	-0.21	0.00	
J-C13 2ND RING CARBON CALIBRATION	0.26	0.52	0.39	-0.08	-0.08	0.26	
MAXIMUM	-0.88	0.94	-1.98	-1.05	-1.04	-0.35	
MINIMUM	0.09	-0.03	0.17	-0.34	-0.08	0.00	
RANGE(MAX-MIN)	-0.970	0.970	-2.150	-0.710	-0.960	-0.350	
MEAN	-0.193	0.158	-0.503	-0.108	-0.213	-0.075	
STANDARD DEVIATION	0.660	0.618	1.115	0.741	0.628	0.266	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Langford, Mike

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.58	-0.19	-0.13	-0.43	-0.57	-0.11	-0.61	0.17										
B2-KEYSTONE	-0.11	-0.37	-0.65		0.52	0.21		-1.01	-1.14	0.44	-1.22	-0.04	-0.22					
B3-C13-STYLE	0.53	-0.10	-0.70		-0.14	1.06	-0.05	-0.03		2.00		-0.05	1.75	-1.80				
B4-SQUARE CUT	-0.17	1.14	0.14	-0.13	1.17	-0.17	0.24	-0.11										
B5-1-SEQ V PISTONS(TH ONLY)																		-1.64
B5-2-SEQ V PISTONS(TH ONLY)																		-1.06
B5-3-SEQ V PISTONS(TH ONLY)																		-0.61
B5-4-SEQ V PISTONS(TH ONLY)																		-1.08
B5-5-SEQ V PISTONS(TH ONLY)																		-0.76
B5-6-SEQ V PISTONS(TH ONLY)																		-1.12
B5-7-SEQ V PISTONS(TH ONLY)																		-1.09
B5-8-SEQ V PISTONS(TH ONLY)																		-1.12
B6-ARTICULATED 2-PIECE	-0.31	1.24	-0.16		-0.40	0.14	0.38	-0.69		-0.02	-0.72	-0.74	-0.50					-0.63
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.72	1.92	0.68		-0.45	-0.92		0.59										
CAL1B-CALIBRATION PISTON	-0.15	-0.13	-0.77		-0.33	-1.11		0.85										
CAL2A-CALIBRATION PISTON	0.92	-0.05	0.58		-0.26	1.80		-1.25										
CAL2B-CALIBRATION PISTON	-0.55	-0.21	1.47		-0.02	0.58		0.56										
MAXIMUM	0.92	1.92	1.47	-0.43	1.17	1.80	-0.61	-1.25	-1.14	2.00	-1.22	-0.74	1.75	-1.80	-1.64			-0.63
MINIMUM	-0.11	-0.05	-0.13	-0.13	-0.02	-0.11	-0.05	-0.03	-1.14	-0.02	-0.72	-0.04	-0.22	-1.80	-0.61			-0.63
RANGE(MAX-MIN)	1.030	1.970	1.600	-0.300	1.190	1.910	-0.560	-1.220	0.000	2.020	-0.500	-0.700	1.970	0.000	-1.030			0.000
MEAN	0.162	0.361	0.051	-0.280	-0.053	0.164	-0.010	-0.102	-1.140	0.807	-0.970	-0.277	0.343	-1.800	-1.060			-0.630
STANDARD DEVIATION	0.525	0.836	0.750	0.212	0.559	0.911	0.438	0.741	0.000	1.059	0.354	0.401	1.226	0.000	0.302			0.000



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lee, Manuel

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.46	3.35	2.60	3.21	1.03	1.94	2.90	-0.44										
B2-KEYSTONE	-2.47	-0.37	0.90		2.44	1.41		-0.89	-0.63	-1.18	1.28	-1.58	-0.22					
B3-C13-STYLE	-0.57	-0.45	-0.35		0.58	1.41	2.62	-0.37		-1.40		-1.55	-1.55	-0.28				
B4-SQUARE CUT	2.09	-0.18	0.04	3.72	0.25	2.60	2.16	2.42										
B5-1-SEQ V PISTONS(TH ONLY)																		0.17
B5-2-SEQ V PISTONS(TH ONLY)																		-0.88
B5-3-SEQ V PISTONS(TH ONLY)																		-1.42
B5-4-SEQ V PISTONS(TH ONLY)																		-1.54
B5-5-SEQ V PISTONS(TH ONLY)																		-1.61
B5-6-SEQ V PISTONS(TH ONLY)																		-1.05
B5-7-SEQ V PISTONS(TH ONLY)																		-1.63
B5-8-SEQ V PISTONS(TH ONLY)																		-1.70
B6-ARTICULATED 2-PIECE	-1.28	-0.83	2.78		-1.04	0.44	2.86	-0.51		-1.36	-2.50	-1.47	-0.50					-2.55
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.44	-1.49	-0.89		1.56	-1.57		1.04										
CAL1B-CALIBRATION PISTON	3.79	5.26	-0.35		0.73	-0.31		-1.48										
CAL2A-CALIBRATION PISTON	-0.43	0.47	0.18		0.26	-1.99		0.60										
CAL2B-CALIBRATION PISTON	0.83	-1.20	-1.13		-0.64	-1.97		-0.87										
MAXIMUM	3.79	5.26	2.78	3.72	2.44	2.60	2.90	2.42	-0.63	-1.40	-2.50	-1.58	-1.55	-0.28	-1.70			-2.55
MINIMUM	-0.43	-0.18	0.04	3.21	0.25	-0.31	2.16	-0.37	-0.63	-1.18	1.28	-1.47	-0.22	-0.28	0.17			-2.55
RANGE(MAX-MIN)	4.220	5.440	2.740	0.510	2.190	2.910	0.740	2.790	0.000	-0.220	-3.780	-0.110	-1.330	0.000	-1.870			0.000
MEAN	0.318	0.507	0.420	3.465	0.574	0.218	2.635	-0.056	-0.630	-1.313	-0.610	-1.533	-0.757	-0.280	-1.208			-2.550
STANDARD DEVIATION	1.843	2.278	1.417	0.361	1.059	1.756	0.340	1.204	0.000	0.117	2.673	0.057	0.701	0.000	0.629			0.000

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lee, Manuel

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.97	
ISMRC-ISM ROCKER COVER	1.33	
SCAL1-VG TC COVER CAL	2.10	
SCAL2-VG TC COVER CAL	3.24	
MAXIMUM	3.24	
MINIMUM	0.97	
RANGE(MAX-MIN)	2.270	
MEAN	1.910	
STANDARD DEVIATION	1.004	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lonsway, Chris

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	-0.39	-0.29	-0.49	-0.29	-0.37	-0.57	-0.69	-0.28										
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT																		
B2-KEYSTONE																		
B3-C13-STYLE																		
B4-SQUARE CUT																		
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT	-2.10	0.72	-0.88	-0.15	-0.50	-0.62	-0.70	-0.61										
C2-KEYSTONE	-0.68	-0.23	0.80		-1.11	-0.22		-0.80	1.17	-0.57	-0.02	-1.25	-0.55					
C3-C13-STYLE	0.94	-0.35	-2.13		0.06	-0.91	-1.38	-1.15		0.31		-0.07	-0.41	0.42				
C4-SQUARE CUT	-0.78	-0.78	0.06	-0.41	-1.22	0.01	-1.12	-0.59										
C5-SEQUENCE III	-0.06	-1.96	-0.43		-1.10	-0.55					0.90				-0.25	-0.54		
C6-ARTICULATED 2-PIECE	1.11	0.32	-0.94		-0.66	-0.45	-0.16	-0.68		-0.36	0.44	0.36	0.00					-0.28
CAL1A-CALIBRATION PISTON	-1.38	0.35	0.68		0.13	-1.94		1.04										
CAL1B-CALIBRATION PISTON	-0.85	0.21	-1.58		1.06	-1.90		-1.59										
CAL2A-CALIBRATION PISTON	-3.05	0.49	-0.87		0.73	-0.03		-1.79										
CAL2B-CALIBRATION PISTON	-2.94	0.08	-0.26		0.23	0.13		-3.01										
MAXIMUM	-3.05	-1.96	-2.13	-0.41	-1.22	-1.94	-1.38	-3.01	1.17	-0.57	0.90	-1.25	-0.55	0.42	-0.25	-0.54	-0.28	
MINIMUM	-0.06	0.08	0.06	-0.15	0.06	0.01	-0.16	-0.28	1.17	0.31	-0.02	-0.07	0.00	0.42	-0.25	-0.54	-0.28	
RANGE(MAX-MIN)	-2.990	-2.040	-2.190	-0.260	-1.280	-1.950	-1.220	-2.730	0.000	-0.880	0.920	-1.180	-0.550	0.000	0.000	0.000	0.000	0.000
MEAN	-0.925	-0.131	-0.549	-0.283	-0.250	-0.641	-0.810	-0.946	1.170	-0.207	0.440	-0.320	-0.320	0.420	-0.250	-0.540	-0.280	
STANDARD DEVIATION	1.375	0.745	0.879	0.130	0.761	0.705	0.466	1.062	0.000	0.460	0.460	0.834	0.286	0.000	0.000	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lonsway, Chris

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.03	
ISMRC-ISM ROCKER COVER	0.19	
SCAL1-VG TC COVER CAL	-0.94	
SCAL2-VG TC COVER CAL	-0.06	
MAXIMUM	-0.94	
MINIMUM	0.03	
RANGE(MAX-MIN)	-0.970	
MEAN	-0.195	
STANDARD DEVIATION	0.507	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lopez, Frank

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	1.14	-0.19	-0.24	-0.29	-0.30	0.43	0.45	-0.28										
A2-KEYSTONE	-0.10	1.11	0.30		0.24	0.41		1.32	0.35	0.78	0.93	-0.54	0.00					
A3-C13-STYLE	-1.07	-1.57	-0.91		-0.25	-1.18	-0.13	-1.14		1.36		-1.36	1.09	-1.43				
A4-SQUARE CUT	-1.91	1.25	-0.97	-0.65	0.28	0.51	0.06	-2.24										
A5-SEQUENCE III	-0.13	0.57	1.20		1.88	-0.29					1.16				-0.46	-0.47		
A6-ARTICULATED 2-PIECE	-0.43	-1.74	0.82		-0.15	-0.15	-0.57	-0.28		0.29	-0.50	-0.85	0.00				-1.12	
B1-SQUARE CUT																		
B2-KEYSTONE																		
B3-C13-STYLE																		
B4-SQUARE CUT																		
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.42	1.55	-0.37		0.53	-0.21		1.04										
CAL1B-CALIBRATION PISTON	0.40	0.06	0.27		0.12	-0.38		-0.55										
CAL2A-CALIBRATION PISTON	1.44	-0.19	0.53		1.14	0.49		-1.79										
CAL2B-CALIBRATION PISTON	0.42	0.67	-0.26		2.01	-1.06		-0.01										
MAXIMUM	-1.91	-1.74	1.20	-0.65	2.01	-1.18	-0.57	-2.24	0.35	1.36	1.16	-1.36	1.09	-1.43	-0.46	-0.47	-1.12	
MINIMUM	-0.10	0.06	-0.24	-0.29	0.12	-0.15	0.06	-0.01	0.35	0.29	-0.50	-0.54	0.00	-1.43	-0.46	-0.47	-1.12	
RANGE(MAX-MIN)	-1.810	-1.800	1.440	-0.360	1.890	-1.030	-0.630	-2.230	0.000	1.070	1.660	-0.820	1.090	0.000	0.000	0.000	0.000	
MEAN	0.018	0.152	0.037	-0.470	0.550	-0.143	-0.048	-0.437	0.350	0.810	0.530	-0.917	0.363	-1.430	-0.460	-0.470	-1.120	
STANDARD DEVIATION	0.994	1.121	0.713	0.255	0.847	0.620	0.424	1.177	0.000	0.536	0.899	0.414	0.629	0.000	0.000	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lopez, Frank

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.13	
ISMRC-ISM ROCKER COVER	-0.03	
SCAL1-VG TC COVER CAL	0.78	
SCAL2-VG TC COVER CAL	0.46	
MAXIMUM	0.78	
MINIMUM	-0.03	
RANGE(MAX-MIN)	0.810	
MEAN	0.335	
STANDARD DEVIATION	0.360	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lopez, Frank

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	0.63	0.83	-0.20	1.35	0.52	0.21	
E-C13 2ND RING CARBON							
F-C13 2ND RING CARBON							
J-C13 2ND RING CARBON CALIBRATION	0.63	-0.78	0.52	-0.46	0.66	0.62	
MAXIMUM	0.63	0.83	0.52	1.35	0.66	0.62	
MINIMUM	-0.57	-0.78	-0.20	-0.46	0.52	0.21	
RANGE(MAX-MIN)	1.200	1.610	0.720	1.810	0.140	0.410	
MEAN	0.030	0.025	0.160	0.445	0.590	0.415	
STANDARD DEVIATION	0.849	1.138	0.509	1.280	0.099	0.290	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lowsky, John

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	-0.59	-1.45	-0.56	-0.21	-0.42	-0.80	-0.50	0.17										
B2-KEYSTONE	1.68	-0.37	-0.65		0.64	-0.21		3.07	-0.86	-0.52	0.87	1.49	-0.22					
B3-C13-STYLE	-2.54	-1.73	-0.87		-0.63	-1.03	-0.23	1.32		-0.97		-0.05	-0.54	2.42				
B4-SQUARE CUT	-0.57	-1.17	-0.80	-0.22	-1.54	-0.13	-0.60	0.44										
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE	0.21	-1.80	-0.62		-1.43	-1.11	-0.26	2.70		0.72	1.06	0.74	-0.50				-0.24	
C1-SQUARE CUT	-0.83	0.94	0.41	-0.15	0.09	-0.36	-0.53	2.17										
C2-KEYSTONE	2.25	-1.06	0.39		0.09	-1.29		2.52	0.73	-1.01	0.01	0.94	-0.55					
C3-C13-STYLE	0.90	-1.78	-1.01		-2.05	0.25	0.25	0.75		-1.40		-0.07	-0.41	0.54				
C4-SQUARE CUT	-1.68	2.15	-0.69	-0.27	0.22	0.85	0.67	0.67										
C5-SEQUENCE III	-0.59	-0.33	-0.80		0.31	-0.33					-1.15				-1.61	2.93		
C6-ARTICULATED 2-PIECE	-1.45	-2.04	-1.02		-0.98	-0.33	0.04	-0.17		-0.05	0.63	-0.78	0.00				0.45	
CAL1A-CALIBRATION PISTON	-3.24	-2.00	-0.37		-0.60	0.99		0.28										
CAL1B-CALIBRATION PISTON	-1.53	-0.21	-1.26		-1.17	0.73		0.27										
CAL2A-CALIBRATION PISTON	-1.11	-0.09	-0.02		-1.36	-1.17		0.60										
CAL2B-CALIBRATION PISTON	-1.77	-0.59	-0.26		0.22	-0.49		1.27										
MAXIMUM	-3.24	2.15	-1.26	-0.27	-2.05	-1.29	0.67	3.07	-0.86	-1.40	-1.15	1.49	-0.55	2.42	-1.61	2.93	0.45	
MINIMUM	0.21	-0.09	-0.02	-0.15	0.09	-0.13	0.04	0.17	0.73	-0.05	0.01	-0.05	0.00	0.54	-1.61	2.93	-0.24	
RANGE(MAX-MIN)	-3.450	2.240	-1.240	-0.120	-2.140	-1.160	0.630	2.900	-1.590	-1.350	-1.160	1.540	-0.550	1.880	0.000	0.000	0.690	
MEAN	-0.724	-0.769	-0.542	-0.213	-0.574	-0.295	-0.145	1.147	-0.065	-0.538	0.284	0.378	-0.370	1.480	-1.610	2.930	0.105	
STANDARD DEVIATION	1.492	1.179	0.493	0.049	0.820	0.737	0.440	1.055	1.124	0.771	0.894	0.826	0.219	1.329	0.000	0.000	0.488	



# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lowsky, John

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-3.28	
ISMRC-ISM ROCKER COVER	-3.14	
SCAL1-VG TC COVER CAL	-3.19	
SCAL2-VG TC COVER CAL	-0.64	
MAXIMUM	-3.28	
MINIMUM	-0.64	
RANGE(MAX-MIN)	-2.640	
MEAN	-2.563	
STANDARD DEVIATION	1.283	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Lowsky, John

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON							
E-C13 2ND RING CARBON							
F-C13 2ND RING CARBON							
J-C13 2ND RING CARBON CALIBRATION		0.26	-2.31	-0.04	-1.56	-1.99	
MAXIMUM	-1.22	0.26	-2.31	-0.04	-1.56	-1.99	
MINIMUM	-1.22	0.26	-2.31	-0.04	-1.56	-1.99	
RANGE(MAX-MIN)	0.000	0.000	0.000	0.000	0.000	0.000	
MEAN	-1.220	0.260	-2.310	-0.040	-1.560	-1.990	
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= May, Marianne

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	-1.17	-0.09	0.38	1.05	0.59	-0.76	-0.60	-0.28										
A2-KEystone	-0.10	0.68	-0.71		-0.67	-0.37		-0.56	-0.61	-1.81	-0.47	-0.84	0.00					
A3-C13-STYLE	0.48	0.60	0.94		0.43	1.51	0.32	0.27		0.82		0.30	0.05	-1.28				
A4-SQUARE CUT	1.87	0.68	0.08	-0.24	0.56	-0.47	-0.73	0.92										
A5-SEQUENCE III	-0.48	0.10	-0.30		0.54	-0.29					0.05				-1.10	-0.89		
A6-ARTICULATED 2-PIECE	0.00	0.94	-1.07		1.26	0.08	-0.57	0.24		-0.32	-0.89	-0.53	0.00				0.82	
B1-SQUARE CUT	0.03	-0.61	-0.60	-0.28	0.91	-0.82	-0.65	1.03										
B2-KEystone	0.96	-0.37	-1.13		-1.67	-0.38		-0.17	-0.82	-1.01	-0.94	-0.66	-0.22					
B3-C13-STYLE																		
B4-SQUARE CUT	-0.90	-0.84	-0.65	0.00	-0.03	-0.82	-0.79	0.66										
B5-1-SEQ V PISTONS(TH ONLY)															1.13			
B5-2-SEQ V PISTONS(TH ONLY)															1.12			
B5-3-SEQ V PISTONS(TH ONLY)															0.95			
B5-4-SEQ V PISTONS(TH ONLY)															0.97			
B5-5-SEQ V PISTONS(TH ONLY)															0.88			
B5-6-SEQ V PISTONS(TH ONLY)															1.01			
B5-7-SEQ V PISTONS(TH ONLY)															1.24			
B5-8-SEQ V PISTONS(TH ONLY)															1.10			
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT																		
C2-KEystone																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.21	0.59	-0.63		-0.35	0.32		1.12										
CAL1B-CALIBRATION PISTON	-0.08	-0.11	-0.92		-0.11	0.39		0.50										
CAL2A-CALIBRATION PISTON	0.55	-0.91	0.13		0.92	0.11		0.71										
CAL2B-CALIBRATION PISTON	0.30	1.38	-1.13		0.59	0.30		-0.01										
MAXIMUM	1.87	1.38	-1.13	1.05	-1.67	1.51	-0.79	1.12	-0.82	-1.81	-0.94	-0.84	-0.22	-1.28	1.24	-0.89	0.82	
MINIMUM	0.00	-0.09	0.08	0.00	-0.03	0.08	0.32	-0.01	-0.61	-0.32	0.05	0.30	0.00	-1.28	0.88	-0.89	0.82	
RANGE(MAX-MIN)	1.870	1.470	-1.210	1.050	-1.640	1.430	-1.110	1.130	-0.210	-1.490	-0.990	-1.140	-0.220	0.000	0.360	0.000	0.000	
MEAN	0.128	0.157	-0.432	0.133	0.228	-0.092	-0.503	0.369	-0.715	-0.580	-0.563	-0.433	-0.043	-1.280	0.811	-0.890	0.820	
STANDARD DEVIATION	0.780	0.717	0.642	0.624	0.788	0.648	0.412	0.545	0.148	1.114	0.460	0.505	0.121	0.000	0.725	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= May, Marianne

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-0.26	
ISMRC-ISM ROCKER COVER	-0.64	
SCAL1-VG TC COVER CAL	-0.45	
SCAL2-VG TC COVER CAL	0.14	
MAXIMUM	-0.64	
MINIMUM	0.14	
RANGE(MAX-MIN)	-0.780	
MEAN	-0.303	
STANDARD DEVIATION	0.333	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= May, Marianne

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	-0.88	-0.06	-0.72	-1.05	-1.04	-2.05	
E-C13 2ND RING CARBON	0.19	1.27	-0.52	0.46	-0.48	-1.07	
F-C13 2ND RING CARBON	-0.50	-1.08	-0.04	-0.80	0.43	-1.13	
J-C13 2ND RING CARBON CALIBRATION	-0.46	-0.43	0.26	-1.31	-0.45	-0.18	
MAXIMUM	-0.88	1.27	-0.72	-1.31	-1.04	-2.05	
MINIMUM	0.19	-0.06	-0.04	0.46	0.43	-0.18	
RANGE(MAX-MIN)	-1.070	1.330	-0.680	-1.770	-1.470	-1.870	
MEAN	-0.410	-0.075	-0.255	-0.675	-0.385	-1.108	
STANDARD DEVIATION	0.444	0.991	0.446	0.785	0.607	0.764	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Pansza, Mike

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT	-0.93	-1.45	-0.59	-0.01	0.04	-0.42	-0.33	-0.44										
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.82	-0.77	-0.89	-1.16	-1.46	0.09	0.32	0.42										
B2-KEYSTONE																		
B3-C13-STYLE																		
B4-SQUARE CUT																		
B5-1-SEQ V PISTONS(TH ONLY)															0.41			
B5-2-SEQ V PISTONS(TH ONLY)															0.42			
B5-3-SEQ V PISTONS(TH ONLY)															0.35			
B5-4-SEQ V PISTONS(TH ONLY)															0.16			
B5-5-SEQ V PISTONS(TH ONLY)															0.58			
B5-6-SEQ V PISTONS(TH ONLY)															0.27			
B5-7-SEQ V PISTONS(TH ONLY)															0.45			
B5-8-SEQ V PISTONS(TH ONLY)															0.32			
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.72	-0.02	-0.89		-0.36	0.88		1.12										
CAL1B-CALIBRATION PISTON	0.11	-0.70	0.01		-0.77	1.27		-0.78										
CAL2A-CALIBRATION PISTON	-0.52	-0.40	-1.42		-0.90	-0.60		0.16										
CAL2B-CALIBRATION PISTON	0.30	0.15	-1.13		0.19	-0.05		0.99										
MAXIMUM	-0.93	-1.45	-1.42	-1.16	-1.46	1.27	-0.33	1.12							0.58			
MINIMUM	0.11	-0.02	0.01	-0.01	0.04	-0.05	0.32	0.16							0.16			
RANGE(MAX-MIN)	-1.040	-1.430	-1.430	-1.150	-1.500	1.320	-0.650	0.960							0.420			
MEAN	0.083	-0.532	-0.818	-0.585	-0.543	0.195	-0.005	0.245							0.370			
STANDARD DEVIATION	0.691	0.578	0.491	0.813	0.621	0.736	0.460	0.759							0.126			

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Pansza, Mike

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	1.00	
ISMRC-ISM ROCKER COVER	0.85	
SCAL1-VG TC COVER CAL	0.86	
SCAL2-VG TC COVER CAL	0.52	
MAXIMUM	1.00	
MINIMUM	0.52	
RANGE(MAX-MIN)	0.480	
MEAN	0.808	
STANDARD DEVIATION	0.204	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Radonich, Pete

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.15	-0.43	-0.89	-0.79	-0.91	-0.74	-0.67	-0.19										
B2-KEYSTONE	0.01	-0.37	-0.68		0.33	0.09		-0.53	-0.50	0.48	-0.62	0.72	-0.22					
B3-C13-STYLE																		
B4-SQUARE CUT	0.05	-0.12	-0.95	-0.83	-0.44	-1.34	-0.37	0.33										
B5-1-SEQ V PISTONS(TH ONLY)																		-0.10
B5-2-SEQ V PISTONS(TH ONLY)																		0.20
B5-3-SEQ V PISTONS(TH ONLY)																		-0.07
B5-4-SEQ V PISTONS(TH ONLY)																		-0.01
B5-5-SEQ V PISTONS(TH ONLY)																		0.07
B5-6-SEQ V PISTONS(TH ONLY)																		0.18
B5-7-SEQ V PISTONS(TH ONLY)																		0.02
B5-8-SEQ V PISTONS(TH ONLY)																		0.25
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT	-0.63	-0.64	-0.49	-0.64	-0.67	-0.39	-0.58	-0.61										
C2-KEYSTONE	-0.59	-0.24	-0.61		1.22	-0.24		-0.66	-0.42	-0.08	0.08	1.17	-0.55					
C3-C13-STYLE	0.58	-0.50	0.22		-0.90	-0.38	-0.34	0.09		-0.25		-0.07	-0.41	-2.61				
C4-SQUARE CUT	-0.59	-0.53	-0.96	-0.75	0.47	-0.59	-1.26	-0.31										
C5-SEQUENCE III	-0.15	0.04	-0.43		-0.68	-0.33									0.62	-0.44		
C6-ARTICULATED 2-PIECE	-1.03	-0.54	-1.27		0.15	-0.59	-1.00	-0.17		-0.33	-0.35	-0.78	0.00					
CAL1A-CALIBRATION PISTON	-0.91	0.76	-0.37		-0.28	-0.34		-1.53										-0.09
CAL1B-CALIBRATION PISTON	0.05	-0.13	-0.01		-0.65	-1.09		-0.90										
CAL2A-CALIBRATION PISTON	-0.25	-0.56	-0.92		-0.08	-0.46		0.49										
CAL2B-CALIBRATION PISTON	0.24	1.30	-0.70		0.68	-0.47		-0.16										
MAXIMUM	-1.03	1.30	-1.27	-0.83	1.22	-1.34	-1.26	-1.53	-0.50	0.48	-0.87	1.17	-0.55	-2.61	0.62	-0.44	-0.09	
MINIMUM	0.01	0.04	-0.01	-0.64	-0.08	0.09	-0.34	0.09	-0.42	-0.08	0.08	-0.07	0.00	-2.61	-0.01	-0.44	-0.09	
RANGE(MAX-MIN)	-1.040	1.260	-1.260	-0.190	1.300	-1.430	-0.920	-1.620	-0.080	0.560	-0.950	1.240	-0.550	0.000	0.630	0.000	0.000	
MEAN	-0.236	-0.151	-0.620	-0.753	-0.135	-0.528	-0.703	-0.346	-0.460	-0.045	-0.440	0.260	-0.295	-2.610	0.129	-0.440	-0.090	
STANDARD DEVIATION	0.480	0.572	0.410	0.082	0.666	0.367	0.363	0.552	0.057	0.365	0.407	0.862	0.239	0.000	0.221	0.000	0.000	



# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Radonich, Pete

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.29	
ISMRC-ISM ROCKER COVER	0.37	
SCAL1-VG TC COVER CAL	-0.75	
SCAL2-VG TC COVER CAL	-0.25	
MAXIMUM	-0.75	
MINIMUM	-0.25	
RANGE(MAX-MIN)	-0.500	
MEAN	-0.085	
STANDARD DEVIATION	0.522	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Richerson, Jay

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT		
A1-SQUARE CUT																			
A2-KEYSTONE																			
A3-C13-STYLE																			
A4-SQUARE CUT																			
A5-SEQUENCE III																			
A6-ARTICULATED 2-PIECE																			
B1-SQUARE CUT	0.88	-0.08	-0.64	-0.98	-0.87	-0.49	-0.58	-1.18											
B2-KEYSTONE	1.13	-1.72	-0.50		0.72	0.23		1.63	1.38	-0.90	2.62	2.34	-0.22						
B3-C13-STYLE	-0.81	0.66	1.60		2.36	0.41	0.88	-1.21		1.08		-0.05	0.99	0.23					
B4-SQUARE CUT	1.91	-0.54	-0.75	-0.70	-0.84	1.21	-0.01	0.33											
B5-1-SEQ V PISTONS(TH ONLY)																			-0.33
B5-2-SEQ V PISTONS(TH ONLY)																			-0.08
B5-3-SEQ V PISTONS(TH ONLY)																			-0.67
B5-4-SEQ V PISTONS(TH ONLY)																			-0.26
B5-5-SEQ V PISTONS(TH ONLY)																			-1.10
B5-6-SEQ V PISTONS(TH ONLY)																			-1.37
B5-7-SEQ V PISTONS(TH ONLY)																			-1.37
B5-8-SEQ V PISTONS(TH ONLY)																			-1.29
B6-ARTICULATED 2-PIECE	-1.50	-0.88	-0.58		-1.15	-1.00	-1.15	-0.87		0.39	0.43	-0.74	-0.50						-0.30
C1-SQUARE CUT																			
C2-KEYSTONE																			
C3-C13-STYLE																			
C4-SQUARE CUT	1.89	-0.86	-0.28	-0.82	-1.60	0.77	1.23	-0.31											
C5-SEQUENCE III																			
C6-ARTICULATED 2-PIECE																			
CAL1A-CALIBRATION PISTON	1.03	-1.41	4.34		-2.38	1.58		-1.38											
CAL1B-CALIBRATION PISTON	1.04	-0.52	3.32		-1.17	2.52		-1.16											
CAL2A-CALIBRATION PISTON	1.70	-1.21	1.78		-0.59	1.09		0.92											
CAL2B-CALIBRATION PISTON	1.03	-0.14	1.03		-0.69	0.30		0.70											
MAXIMUM	1.91	-1.72	4.34	-0.98	-2.38	2.52	1.23	1.63	1.38	1.08	2.62	2.34	0.99	0.23	-1.37				-0.30
MINIMUM	-0.81	-0.08	-0.28	-0.70	-0.59	0.23	-0.01	-0.31	1.38	0.39	0.43	-0.05	-0.22	0.23	-0.08				-0.30
RANGE(MAX-MIN)	2.720	-1.640	4.620	-0.280	-1.790	2.290	1.240	1.940	0.000	0.690	2.190	2.390	1.210	0.000	-1.290				0.000
MEAN	0.830	-0.670	0.932	-0.833	-0.621	0.662	0.074	-0.253	1.380	0.190	1.525	0.517	0.090	0.230	-0.809				-0.300
STANDARD DEVIATION	1.125	0.704	1.813	0.140	1.310	1.014	0.990	1.076	0.000	1.005	1.549	1.616	0.792	0.000	0.538				0.000

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Rodriguez, Jesse

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	-0.31	-0.20	0.47	-0.43	-0.22	-0.70	-0.75	-0.93										
B2-KEYSTONE	0.13	1.92	-0.71		-0.76	0.11		-0.89	-0.54	-0.45	-0.94	0.26	-0.22					
B3-C13-STYLE	0.14	0.54	-0.74		1.52	0.31	0.00	-1.21		-0.07		-0.05	-0.03	-1.12				
B4-SQUARE CUT	-0.35	-0.87	-0.60	-0.05	-0.02	0.54	-0.06	-2.09										
B5-1-SEQ V PISTONS(TH ONLY)															0.78			
B5-2-SEQ V PISTONS(TH ONLY)															0.74			
B5-3-SEQ V PISTONS(TH ONLY)															0.68			
B5-4-SEQ V PISTONS(TH ONLY)															0.54			
B5-5-SEQ V PISTONS(TH ONLY)															0.68			
B5-6-SEQ V PISTONS(TH ONLY)															0.97			
B5-7-SEQ V PISTONS(TH ONLY)															0.42			
B5-8-SEQ V PISTONS(TH ONLY)															0.42			
B6-ARTICULATED 2-PIECE	0.77	0.14	-0.30		-1.32	-0.23	-0.09	-0.15		-0.44	0.34	-0.74	-0.50					-0.10
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT	-1.48	0.46	-0.96	-0.41	1.36	-0.33	-0.52	-0.45										
C5-SEQUENCE III	-0.59	1.67	-0.86		1.73	-0.33					-0.26				-0.36	-0.54		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	-1.27	0.11	0.16		-2.77	-1.36		-1.15										
CAL1B-CALIBRATION PISTON	-0.08	-0.16	1.03		-0.01	-1.71		-0.90										
CAL2A-CALIBRATION PISTON	0.61	0.24	-0.92		0.44	-0.68		-0.60										
CAL2B-CALIBRATION PISTON	1.04	0.56	-0.26		-0.06	0.63		-0.58										
MAXIMUM	-1.48	1.92	1.03	-0.43	-2.77	-1.71	-0.75	-2.09	-0.54	-0.45	-0.94	-0.74	-0.50	-1.12	0.97	-0.54	-0.10	
MINIMUM	-0.08	0.11	0.16	-0.05	-0.01	0.11	0.00	-0.15	-0.54	-0.07	-0.26	-0.05	-0.03	-1.12	-0.36	-0.54	-0.10	
RANGE(MAX-MIN)	-1.400	1.810	0.870	-0.380	-2.760	-1.820	-0.750	-1.940	0.000	-0.380	-0.680	-0.690	-0.470	0.000	1.330	0.000	0.000	
MEAN	-0.126	0.401	-0.335	-0.297	-0.010	-0.341	-0.284	-0.895	-0.540	-0.320	-0.287	-0.177	-0.250	-1.120	0.541	-0.540	-0.100	
STANDARD DEVIATION	0.793	0.802	0.644	0.214	1.319	0.743	0.332	0.530	0.000	0.217	0.640	0.512	0.236	0.000	0.381	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Rodriguez, Jesse

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.97	
ISMRC-ISM ROCKER COVER	1.64	
SCAL1-VG TC COVER CAL	-0.96	
SCAL2-VG TC COVER CAL	-2.12	
MAXIMUM	-2.12	
MINIMUM	-0.96	
RANGE(MAX-MIN)	-1.160	
MEAN	-0.118	
STANDARD DEVIATION	1.731	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Sanchez, Art

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEystone																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.40	-0.93	-0.31	-0.28	1.05	-0.91	-0.54	-0.07										
B2-KEystone	0.01	-0.37	-1.31		0.11	-0.94		1.27	-0.68	0.80	0.13	1.34	4.36					
B3-C13-STYLE	1.98	0.55	-0.98		1.42	-0.57	-0.72	1.32		0.09		-0.05	0.73	1.41				
B4-SQUARE CUT	1.10	-0.45	0.24	-0.39	-0.74	-0.81	-1.25	0.66										
B5-1-SEQ V PISTONS(TH ONLY)																		0.33
B5-2-SEQ V PISTONS(TH ONLY)																		0.26
B5-3-SEQ V PISTONS(TH ONLY)																		0.25
B5-4-SEQ V PISTONS(TH ONLY)																		0.36
B5-5-SEQ V PISTONS(TH ONLY)																		0.55
B5-6-SEQ V PISTONS(TH ONLY)																		0.10
B5-7-SEQ V PISTONS(TH ONLY)																		-0.04
B5-8-SEQ V PISTONS(TH ONLY)																		0.44
B6-ARTICULATED 2-PIECE	0.33	-0.21	-0.98		1.20	-1.16	0.21	-0.33		0.12	0.79	1.47	-0.50					-0.63
C1-SQUARE CUT																		
C2-KEystone																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.59	-0.92	-0.37		2.50	0.18		-0.85										
CAL1B-CALIBRATION PISTON	1.09	1.33	-1.24		3.07	-1.87		0.73										
CAL2A-CALIBRATION PISTON	-0.93	-0.46	0.08		-0.97	-1.36		-0.49										
CAL2B-CALIBRATION PISTON	0.04	-2.01	-0.26		-2.12	-0.71		-0.44										
MAXIMUM	1.98	-2.01	-1.31	-0.39	3.07	-1.87	-1.25	1.32	-0.68	0.80	0.79	1.47	4.36	1.41	0.55			-0.63
MINIMUM	0.01	-0.21	0.08	-0.28	0.11	0.18	0.21	-0.07	-0.68	0.09	0.13	-0.05	-0.50	1.41	-0.04			-0.63
RANGE(MAX-MIN)	1.970	-1.800	-1.390	-0.110	2.960	-2.050	-1.460	1.390	0.000	0.710	0.660	1.520	4.860	0.000	0.590			0.000
MEAN	0.512	-0.386	-0.570	-0.335	0.613	-0.906	-0.575	0.200	-0.680	0.337	0.460	0.920	1.530	1.410	0.281			-0.630
STANDARD DEVIATION	0.825	0.941	0.572	0.078	1.690	0.564	0.604	0.809	0.000	0.402	0.467	0.843	2.527	0.000	0.187			0.000

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Sanchez, Art

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.90	
ISMRC-ISM ROCKER COVER	1.24	
SCAL1-VG TC COVER CAL	0.11	
SCAL2-VG TC COVER CAL	-0.38	
MAXIMUM	1.24	
MINIMUM	0.11	
RANGE(MAX-MIN)	1.130	
MEAN	0.468	
STANDARD DEVIATION	0.737	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Seiz, Ray

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	0.91	-0.63	0.13	-0.29	0.31	-0.78	-0.35	-0.28									
A2-KEystone																	
A3-C13-STYLE																	
A4-SQUARE CUT	0.88	-1.15	-0.01	0.05	0.40	-0.47	-0.33	1.59									
A5-SEQUENCE III	2.83	1.66	-0.22		1.03	-0.29					0.57				-1.55	-0.71	
A6-ARTICULATED 2-PIECE	-0.43	-1.20	-0.81		1.18	-1.55	0.62	-1.07		0.55	0.49	-0.69	0.00				-0.26
B1-SQUARE CUT																	
B2-KEystone																	
B3-C13-STYLE																	
B4-SQUARE CUT																	
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE																	
C1-SQUARE CUT	-0.69	-0.68	0.15	-0.15	-0.61	-0.65	-0.49	-0.61									
C2-KEystone	-0.24	1.35	-1.78		-0.05	0.02		-0.36	-0.85	0.82	0.24	-1.40	-0.55				
C3-C13-STYLE	-0.91	0.03	-0.92		1.11	-2.10	0.10	-1.43		0.04		-0.07	-0.41	-0.51			
C4-SQUARE CUT	1.99	0.97	-0.28	2.34	1.46	-0.29	-0.07	1.92									
C5-SEQUENCE III	3.28	-0.08	0.72		2.07	3.33					0.75				-0.29	-0.05	
C6-ARTICULATED 2-PIECE																	
CAL1A-CALIBRATION PISTON	0.24	0.75	0.16		-0.14	-0.65		-1.98									
CAL1B-CALIBRATION PISTON	-1.83	-0.43	-0.66		1.77	-0.15		1.55									
CAL2A-CALIBRATION PISTON	0.51	-1.62	-0.42		0.44	-0.24		1.68									
CAL2B-CALIBRATION PISTON	0.20	1.09	0.60		0.84	0.25		2.42									
MAXIMUM	3.28	1.66	-1.78	2.34	2.07	3.33	0.62	2.42	-0.85	0.82	0.75	-1.40	-0.55	-0.51	-1.55	-0.71	-0.26
MINIMUM	0.20	0.03	-0.01	0.05	-0.05	0.02	-0.07	-0.28	-0.85	0.04	0.24	-0.07	0.00	-0.51	-0.29	-0.05	-0.26
RANGE(MAX-MIN)	3.080	1.630	-1.770	2.290	2.120	3.310	0.690	2.700	0.000	0.780	0.510	-1.330	-0.550	0.000	-1.260	-0.660	0.000
MEAN	0.518	0.005	-0.257	0.488	0.755	-0.275	-0.087	0.312	-0.850	0.470	0.513	-0.720	-0.320	-0.510	-0.920	-0.380	-0.260
STANDARD DEVIATION	1.474	1.069	0.677	1.243	0.784	1.255	0.406	1.546	0.000	0.396	0.212	0.666	0.286	0.000	0.891	0.467	0.000

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Seiz, Ray

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	-0.26	
ISMRC-ISM ROCKER COVER	-0.20	
SCAL1-VG TC COVER CAL	-1.74	
SCAL2-VG TC COVER CAL	-0.57	
MAXIMUM	-1.74	
MINIMUM	-0.20	
RANGE(MAX-MIN)	-1.540	
MEAN	-0.693	
STANDARD DEVIATION	0.717	



# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Seiz, Ray

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON							
E-C13 2ND RING CARBON	-2.11	-1.60	-1.56	-2.06	-1.93	-1.07	
F-C13 2ND RING CARBON	-1.43	-1.62	-0.36	-1.71	-2.13	-1.69	
J-C13 2ND RING CARBON CALIBRATION	2.62	-0.78	1.21	-0.46	2.26	2.22	
MAXIMUM	2.62	-1.62	-1.56	-2.06	2.26	2.22	
MINIMUM	-1.43	-0.78	-0.36	-0.46	-1.93	-1.07	
RANGE(MAX-MIN)	4.050	-0.840	-1.200	-1.600	4.190	3.290	
MEAN	-0.307	-1.333	-0.237	-1.410	-0.600	-0.180	
STANDARD DEVIATION	2.557	0.479	1.389	0.841	2.479	2.101	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Sherrod, Jeff

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT
A1-SQUARE CUT	0.84	-1.10	3.23	1.63	-0.62	0.09	0.45	0.41									
A2-KEYSTONE																	
A3-C13-STYLE																	
A4-SQUARE CUT	-0.25	-1.73	2.85	0.52	-0.76	2.07	2.58	1.03									
A5-SEQUENCE III																	
A6-ARTICULATED 2-PIECE																	
B1-SQUARE CUT	-3.15	-0.30	0.27	0.66	-1.34	-0.84	-0.37	-1.05									
B2-KEYSTONE																	
B3-C13-STYLE																	
B4-SQUARE CUT	-0.88	0.45	0.93	0.04	0.51	-0.79	-0.82	0.66									
B5-1-SEQ V PISTONS(TH ONLY)																	
B5-2-SEQ V PISTONS(TH ONLY)																	
B5-3-SEQ V PISTONS(TH ONLY)																	
B5-4-SEQ V PISTONS(TH ONLY)																	
B5-5-SEQ V PISTONS(TH ONLY)																	
B5-6-SEQ V PISTONS(TH ONLY)																	
B5-7-SEQ V PISTONS(TH ONLY)																	
B5-8-SEQ V PISTONS(TH ONLY)																	
B6-ARTICULATED 2-PIECE																	
C1-SQUARE CUT	-0.72	-1.02	3.40	2.77	2.05	-0.25	1.26	2.17									
C2-KEYSTONE																	
C3-C13-STYLE																	
C4-SQUARE CUT	-0.34	-0.40	2.59	2.34	-0.80	0.47	0.91	-0.03									
C5-SEQUENCE III																	
C6-ARTICULATED 2-PIECE																	
CAL1A-CALIBRATION PISTON	-0.32	0.67	1.20		1.31	-0.39		0.66									
CAL1B-CALIBRATION PISTON	-0.72	-0.25	-0.25		-1.26	-0.74		0.27									
CAL2A-CALIBRATION PISTON	0.90	-0.46	0.58		-0.26	-0.82		0.05									
CAL2B-CALIBRATION PISTON	0.52	-2.02	2.33		0.40	-1.69		0.13									
MAXIMUM	-3.15	-2.02	3.40	2.77	2.05	2.07	2.58	2.17									
MINIMUM	-0.25	-0.25	-0.25	0.04	-0.26	0.09	-0.37	-0.03									
RANGE(MAX-MIN)	-2.900	-1.770	3.650	2.730	2.310	1.980	2.950	2.200									
MEAN	-0.412	-0.616	1.713	1.327	-0.077	-0.289	0.668	0.430									
STANDARD DEVIATION	1.160	0.863	1.320	1.091	1.122	1.016	1.217	0.827									

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Shoda, Ron

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	-0.49	0.33	-0.48	-0.61	-1.28	0.59	-0.18	-0.19										
B2-KEYSTONE	0.96	1.92	-0.24		1.89	1.63		-0.53	-0.45	0.63	0.10	0.42	-0.22					
B3-C13-STYLE	1.70	2.17	0.53		-0.24	2.48	-0.88	1.49		-0.95		2.94	-0.54	0.90				
B4-SQUARE CUT	-1.15	-0.12	-0.95	-0.83	-0.58	0.88	1.33	0.22										
B5-1-SEQ V PISTONS(TH ONLY)																		-0.51
B5-2-SEQ V PISTONS(TH ONLY)																		-0.35
B5-3-SEQ V PISTONS(TH ONLY)																		0.12
B5-4-SEQ V PISTONS(TH ONLY)																		0.03
B5-5-SEQ V PISTONS(TH ONLY)																		-0.13
B5-6-SEQ V PISTONS(TH ONLY)																		-0.01
B5-7-SEQ V PISTONS(TH ONLY)																		0.04
B5-8-SEQ V PISTONS(TH ONLY)																		-0.02
B6-ARTICULATED 2-PIECE	-0.88	0.22	0.27		0.63	0.65	-0.79	0.03		-0.90	0.08	2.21	-0.50					1.63
C1-SQUARE CUT	0.54	-0.72	0.15	0.82	-0.79	-0.10	0.30	-0.26										
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT	0.48	0.16	-0.28	-0.41	-0.79	0.39	1.30	0.39										
C5-SEQUENCE III	0.07	0.67	0.27		0.04	-0.33									0.23	-0.35		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	-1.32	-0.38	0.16		-0.14	0.93		-1.45										
CAL1B-CALIBRATION PISTON	-0.31	-0.24	1.06		1.85	0.23		-0.78										
CAL2A-CALIBRATION PISTON	0.40	0.14	-0.17		0.19	0.21		0.71										
CAL2B-CALIBRATION PISTON	-0.64	-0.32	0.60		0.70	1.98		-0.30										
MAXIMUM	1.70	2.17	1.06	-0.83	1.89	2.48	1.33	1.49	-0.45	-0.95	-1.07	2.94	-0.54	0.90	-0.51	-0.35	1.63	
MINIMUM	0.07	-0.12	0.15	-0.41	0.04	-0.10	-0.18	0.03	-0.45	0.63	0.08	0.42	-0.22	0.90	-0.01	-0.35	1.63	
RANGE(MAX-MIN)	1.630	2.290	0.910	-0.420	1.850	2.580	1.510	1.460	0.000	-1.580	-1.150	2.520	-0.320	0.000	-0.500	0.000	0.000	0.000
MEAN	-0.053	0.319	0.077	-0.258	0.123	0.795	0.180	-0.061	-0.450	-0.407	-0.297	1.857	-0.420	0.900	-0.067	-0.350	1.630	
STANDARD DEVIATION	0.907	0.887	0.538	0.739	1.002	0.849	0.978	0.779	0.000	0.898	0.670	1.297	0.174	0.000	0.232	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Shoda, Ron

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.68	
ISMRC-ISM ROCKER COVER	0.28	
SCAL1-VG TC COVER CAL	-0.21	
SCAL2-VG TC COVER CAL	-0.38	
MAXIMUM	0.68	
MINIMUM	-0.21	
RANGE(MAX-MIN)	0.890	
MEAN	0.093	
STANDARD DEVIATION	0.481	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Smith, Russell

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.07	-0.32	0.47	1.28	-0.58	-0.06	0.47	-0.32										
B2-KEYSTONE	1.32	-0.37	0.61		1.14	1.24		0.19	0.88	-1.68	-0.20	0.26	-0.22					
B3-C13-STYLE	-0.31	-1.54	-1.40		-0.24	-1.59	-1.06	-0.37		0.20		-0.65	0.99	-0.62				
B4-SQUARE CUT	1.78	1.74	1.67	-0.31	-1.41	0.29	0.41	0.11										
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE	-0.17	-1.71	-1.06		0.25	-1.26	0.53	-0.33		-2.03	-0.55	0.00	1.85				0.09	
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.48	-0.48	-0.89		-0.20	-0.04		-0.85										
CAL1B-CALIBRATION PISTON	0.90	-0.01	-0.09		-0.59	-0.57		-0.78										
CAL2A-CALIBRATION PISTON	0.35	1.67	1.23		-1.56	-0.57		-1.68										
CAL2B-CALIBRATION PISTON	0.48	-0.93	3.20		-2.82	-1.31		-2.01										
MAXIMUM	1.78	1.74	3.20	1.28	-2.82	-1.59	-1.06	-2.01	0.88	-2.03	-0.55	-0.65	1.85	-0.62			0.09	
MINIMUM	0.07	-0.01	-0.09	-0.31	-0.20	-0.04	0.41	0.11	0.88	0.20	-0.20	0.00	-0.22	-0.62			0.09	
RANGE(MAX-MIN)	1.710	1.750	3.290	1.590	-2.620	-1.550	-1.470	-2.120	0.000	-2.230	-0.350	-0.650	2.070	0.000			0.000	
MEAN	0.544	-0.217	0.416	0.485	-0.668	-0.430	0.088	-0.671	0.880	-1.170	-0.375	-0.130	0.873	-0.620			0.090	
STANDARD DEVIATION	0.686	1.226	1.478	1.124	1.146	0.898	0.767	0.753	0.000	1.199	0.247	0.469	1.040	0.000			0.000	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Trevino, Robert

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT																		
A2-KEYSTONE																		
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE																		
B1-SQUARE CUT	0.77	-0.31	-0.23	0.41	-0.93	0.21	0.51	0.66										
B2-KEYSTONE	-1.65	-0.37	-0.92		-0.39	-1.34		-1.13	0.14	0.27	-0.92	-0.89	-0.22					
B3-C13-STYLE	-0.29	0.78	0.12		-0.09	0.02	0.22	-1.72		-0.28		-1.55	-0.28	-0.78				
B4-SQUARE CUT	0.61	0.33	-0.40	0.39	-0.22	-1.03	-1.02	0.77										
B5-1-SEQ V PISTONS(TH ONLY)																		0.74
B5-2-SEQ V PISTONS(TH ONLY)																		0.67
B5-3-SEQ V PISTONS(TH ONLY)																		0.76
B5-4-SEQ V PISTONS(TH ONLY)																		0.54
B5-5-SEQ V PISTONS(TH ONLY)																		0.71
B5-6-SEQ V PISTONS(TH ONLY)																		0.61
B5-7-SEQ V PISTONS(TH ONLY)																		0.59
B5-8-SEQ V PISTONS(TH ONLY)																		0.53
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	0.29	-0.24	0.58		-0.18	-0.86		0.96										
CAL1B-CALIBRATION PISTON	-0.63	-0.09	-0.32		1.06	0.11		-0.43										
CAL2A-CALIBRATION PISTON	0.79	-0.92	-0.67		0.51	2.02		1.25										
CAL2B-CALIBRATION PISTON	-0.03	0.64	-0.78		0.00	-1.07		0.42										
MAXIMUM	-1.65	-0.92	-0.92	0.41	1.06	2.02	-1.02	-1.72	0.14	-0.28	-0.92	-1.55	-0.28	-0.78	0.76			
MINIMUM	-0.03	-0.09	0.12	0.39	0.00	0.02	0.22	0.42	0.14	0.27	-0.92	-0.89	-0.22	-0.78	0.53			
RANGE(MAX-MIN)	-1.620	-0.830	-1.040	0.020	1.060	2.000	-1.240	-2.140	0.000	-0.550	0.000	-0.660	-0.060	0.000	0.230			
MEAN	-0.018	-0.023	-0.328	0.400	-0.030	-0.243	-0.097	0.098	0.140	-0.005	-0.920	-1.220	-0.250	-0.780	0.644			
STANDARD DEVIATION	0.835	0.569	0.495	0.014	0.596	1.096	0.813	1.071	0.000	0.389	0.000	0.467	0.042	0.000	0.089			

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Trevino, Robert

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.42	
ISMRC-ISM ROCKER COVER	-0.07	
SCAL1-VG TC COVER CAL	0.30	
SCAL2-VG TC COVER CAL	0.14	
MAXIMUM	0.42	
MINIMUM	-0.07	
RANGE(MAX-MIN)	0.490	
MEAN	0.198	
STANDARD DEVIATION	0.212	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Trevino, Robert

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON							
E-C13 2ND RING CARBON							
F-C13 2ND RING CARBON							
J-C13 2ND RING CARBON CALIBRATION	0.61	-1.81	-0.59	-0.89	0.23	-0.32	
MAXIMUM	0.61	-1.81	-0.59	-0.89	0.23	-0.32	
MINIMUM	0.61	-1.81	-0.59	-0.89	0.23	-0.32	
RANGE(MAX-MIN)	0.000	0.000	0.000	0.000	0.000	0.000	
MEAN	0.610	-1.810	-0.590	-0.890	0.230	-0.320	
STANDARD DEVIATION	0.000	0.000	0.000	0.000	0.000	0.000	



## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Viera, Ralph

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	-0.11	0.82	0.62	0.19	-0.48	-0.06	0.15	-0.28										
A2-KEystone	2.81	-0.87	0.23		-0.11	-0.04		0.29	0.12	0.35	1.28	0.39	0.00					
A3-C13-STYLE	0.29	-0.02	0.48		-0.54	0.40	1.85	0.27		0.21		0.30	0.05	0.65				
A4-SQUARE CUT	-1.08	1.12	0.27	0.64	-0.58	-0.71	0.50	-0.66										
A5-SEQUENCE III	-0.32	0.26	-0.82		-0.31	-0.29					0.68				0.30	-0.35		
A6-ARTICULATED 2-PIECE	0.37	0.19	0.82		-0.30	1.04	2.54	0.76		1.48	0.88	1.03	0.00				0.58	
B1-SQUARE CUT	-0.18	0.63	1.71	-0.17	0.38	0.82	0.53	1.03										
B2-KEystone	0.61	1.92	0.19		-0.57	-1.04		0.43	-0.22	1.65	-0.10	0.11	-0.22					
B3-C13-STYLE																		
B4-SQUARE CUT	-0.54	2.07	0.68	1.51	0.66	0.19	-0.01	-0.66										
B5-1-SEQ V PISTONS(TH ONLY)																		
B5-2-SEQ V PISTONS(TH ONLY)																		
B5-3-SEQ V PISTONS(TH ONLY)																		
B5-4-SEQ V PISTONS(TH ONLY)																		
B5-5-SEQ V PISTONS(TH ONLY)																		
B5-6-SEQ V PISTONS(TH ONLY)																		
B5-7-SEQ V PISTONS(TH ONLY)																		
B5-8-SEQ V PISTONS(TH ONLY)																		
B6-ARTICULATED 2-PIECE																		
C1-SQUARE CUT																		
C2-KEystone																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	1.00	1.18	-0.47		0.05	-0.73		-0.47										
CAL1B-CALIBRATION PISTON	-0.13	0.02	0.33		-0.74	-0.86		0.62										
CAL2A-CALIBRATION PISTON	-0.85	0.98	-0.27		-0.11	-0.21		0.71										
CAL2B-CALIBRATION PISTON	-0.42	0.67	-0.44		-0.53	-1.01		0.27										
MAXIMUM	2.81	2.07	1.71	1.51	-0.74	1.04	2.54	1.03	-0.22	1.65	1.28	1.03	-0.22	0.65	0.30	-0.35	0.58	
MINIMUM	-0.11	-0.02	0.19	-0.17	0.05	-0.04	-0.01	0.27	0.12	0.21	-0.10	0.11	0.00	0.65	0.30	-0.35	0.58	
RANGE(MAX-MIN)	2.920	2.090	1.520	1.680	-0.790	1.080	2.550	0.760	-0.340	1.440	1.380	0.920	-0.220	0.000	0.000	0.000	0.000	
MEAN	0.112	0.690	0.256	0.543	-0.245	-0.192	0.927	0.193	-0.050	0.923	0.685	0.458	-0.043	0.650	0.300	-0.350	0.580	
STANDARD DEVIATION	0.994	0.805	0.662	0.725	0.411	0.676	1.027	0.577	0.240	0.747	0.580	0.399	0.121	0.000	0.000	0.000	0.000	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Viera, Ralph

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.68	
ISMRC-ISM ROCKER COVER	0.15	
SCAL1-VG TC COVER CAL	0.35	
SCAL2-VG TC COVER CAL	0.72	
MAXIMUM	0.72	
MINIMUM	0.15	
RANGE(MAX-MIN)	0.570	
MEAN	0.475	
STANDARD DEVIATION	0.273	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Viera, Ralph

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	R1DEME	R2DEME	R3DEME	R4DEME	R5DEME	R6DEME	
D-C13 2ND RING CARBON	0.63	0.17	0.33	0.15	0.00	-0.35	
E-C13 2ND RING CARBON	-0.22	-0.82	0.87	-0.69	1.45	0.64	
F-C13 2ND RING CARBON	-0.96	0.54	0.61	0.57	0.00	0.00	
J-C13 2ND RING CARBON CALIBRATION	0.26	0.09	1.24	-0.26	-0.10		
MAXIMUM	-0.96	-0.82	0.87	1.24	1.45	0.64	
MINIMUM	0.20	0.17	0.09	0.15	0.00	0.00	
RANGE(MAX-MIN)	-1.160	-0.990	0.780	1.090	1.450	0.640	
MEAN	-0.088	0.038	0.475	0.318	0.298	0.048	
STANDARD DEVIATION	0.677	0.593	0.338	0.808	0.778	0.422	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Yanchar, Paul

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	-0.59	0.02	-0.62	-0.77	-0.24	-0.48	-0.63	-0.97										
A2-KEystone	-0.10	1.41	-0.14		-0.40	0.35		-0.39	0.48	0.41	0.31	0.70	0.00					
A3-C13-STYLE	-1.26	1.72	0.47		-0.59	0.54	-0.33	-0.79		-0.96		0.30	-1.51	-0.09				
A4-SQUARE CUT	-0.33	0.82	-0.01	-0.36	0.09	-0.37	0.20	-0.32										
A5-SEQUENCE III	-0.47	1.04	-0.38		-0.83	-0.29					-0.06				0.11	0.42		
A6-ARTICULATED 2-PIECE	0.16	1.04	-0.46		0.01	1.22	0.37	-0.68		-0.65	0.18	0.09	0.00				0.58	
B1-SQUARE CUT	0.30	-0.65	-0.73	-0.47	0.03	-0.40	-0.44	0.66										
B2-KEystone	0.37	-0.37	-0.21		-0.88	-0.18		-0.53	0.33	0.29	-0.46	-0.04	-0.22					
B3-C13-STYLE	-0.33	1.18	-0.14		-0.22	0.23	0.36	-0.88		-0.62		-0.05	-1.30	-0.62				
B4-SQUARE CUT	-1.41	0.30	-0.50	-0.26	0.00	-0.70	-0.91	-1.98										
B5-1-SEQ V PISTONS(TH ONLY)															0.52			
B5-2-SEQ V PISTONS(TH ONLY)															0.31			
B5-3-SEQ V PISTONS(TH ONLY)															0.30			
B5-4-SEQ V PISTONS(TH ONLY)															0.42			
B5-5-SEQ V PISTONS(TH ONLY)															0.28			
B5-6-SEQ V PISTONS(TH ONLY)															0.32			
B5-7-SEQ V PISTONS(TH ONLY)															0.15			
B5-8-SEQ V PISTONS(TH ONLY)															0.16			
B6-ARTICULATED 2-PIECE	0.75	1.39	-0.08		1.78	0.63	0.18	-0.15		0.24	0.08	0.00	-0.50				0.42	
C1-SQUARE CUT	2.17	0.70	-0.49	-0.93	1.89	-0.44	-0.66	-0.61										
C2-KEystone	-0.43	-0.65	-0.02		-0.78	-0.43		-0.46	0.64	0.60	-0.28	-0.86	-0.55					
C3-C13-STYLE	-0.82	2.26	0.39		0.29	-0.06	-1.42	-1.15		0.99		-0.07	-0.41	-0.04				
C4-SQUARE CUT	-0.45	1.06	0.06	-0.75	0.49	-1.18	-1.01	-1.29										
C5-SEQUENCE III	-0.50	0.29	-0.97		-0.35	-0.33					0.14				0.13	-0.12		
C6-ARTICULATED 2-PIECE	1.05	1.02	-0.17		0.86	0.80	0.08	-0.68		-0.10	0.04	0.36	0.00				1.61	
CAL1A-CALIBRATION PISTON	0.45	0.16	-0.68		0.37	1.34		0.74										
CAL1B-CALIBRATION PISTON	-0.21	-0.29	-0.79		-0.05	1.27		0.15										
CAL2A-CALIBRATION PISTON	-0.41	0.40	-0.47		-0.09	0.42		-0.49										
CAL2B-CALIBRATION PISTON	-0.25	0.51	-0.96		0.74	0.58		-0.16										
MAXIMUM	2.17	2.26	-0.97	-0.93	1.89	1.34	-1.42	-1.98	0.64	0.99	-0.46	-0.86	-1.51	-0.62	0.52	0.42	1.61	
MINIMUM	-0.10	0.02	-0.01	-0.26	0.00	-0.06	0.08	-0.15	0.33	-0.10	0.04	0.00	0.00	-0.04	0.11	-0.12	0.42	
RANGE(MAX-MIN)	2.270	2.240	-0.960	-0.670	1.890	1.400	-1.500	-1.830	0.310	1.090	-0.500	-0.860	-1.510	-0.580	0.410	0.540	1.190	
MEAN	-0.110	0.636	-0.329	-0.590	0.101	0.120	-0.351	-0.525	0.483	0.022	-0.006	0.048	-0.499	-0.250	0.270	0.150	0.870	
STANDARD DEVIATION	0.792	0.776	0.398	0.264	0.745	0.694	0.593	0.639	0.155	0.650	0.253	0.425	0.559	0.321	0.134	0.382	0.646	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Yanchar, Paul

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.42	
ISMRC-ISM ROCKER COVER	0.28	
SCAL1-VG TC COVER CAL	0.59	
SCAL2-VG TC COVER CAL	0.26	
MAXIMUM	0.59	
MINIMUM	0.26	
RANGE(MAX-MIN)	0.330	
MEAN	0.388	
STANDARD DEVIATION	0.153	

## HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Zalewski, John

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	G1TOT	G2TOT	G3TOT	G4TOT	L2TOT	L3TOT	L4TOT	TGF	USTOT	L1TOT	UCTOT	SGF	TLHC	AGF	THTOT	ATTOT	OCTOT	
A1-SQUARE CUT	0.07	1.93	-0.49	-0.29	3.63	3.38	3.24	2.71										
A2-KEYSTONE	-0.10	1.08	1.97		1.62	1.76		-0.56	1.78	0.78	1.73	-0.23	0.00					
A3-C13-STYLE																		
A4-SQUARE CUT																		
A5-SEQUENCE III																		
A6-ARTICULATED 2-PIECE	-0.64	1.29	-0.65		1.84	-0.64	-1.10	-1.07		0.05	-1.12	-0.22	0.00					-2.58
B1-SQUARE CUT	0.19	1.62	2.64	1.32	2.31	2.79	2.81	-1.05										
B2-KEYSTONE	-0.20	-0.37	1.82		0.06	1.24		0.19	1.93	1.22	0.31	-1.12	-0.22					
B3-C13-STYLE	0.18	0.17	2.50		0.19	-0.98	-1.34	1.66		1.76		-0.05	0.99	0.40				
B4-SQUARE CUT	1.19	1.68	2.51	0.64	3.03	1.46	2.16	0.77										
B5-1-SEQ V PISTONS(TH ONLY)																		-2.52
B5-2-SEQ V PISTONS(TH ONLY)																		-2.72
B5-3-SEQ V PISTONS(TH ONLY)																		-2.49
B5-4-SEQ V PISTONS(TH ONLY)																		-2.28
B5-5-SEQ V PISTONS(TH ONLY)																		-2.08
B5-6-SEQ V PISTONS(TH ONLY)																		-2.01
B5-7-SEQ V PISTONS(TH ONLY)																		-1.32
B5-8-SEQ V PISTONS(TH ONLY)																		-1.49
B6-ARTICULATED 2-PIECE	-0.97	0.48	1.32		0.56	2.35	-0.68	-0.33		0.87	0.43	-0.74	-0.50					1.23
C1-SQUARE CUT																		
C2-KEYSTONE																		
C3-C13-STYLE																		
C4-SQUARE CUT																		
C5-SEQUENCE III																		
C6-ARTICULATED 2-PIECE																		
CAL1A-CALIBRATION PISTON	1.49	1.09	-0.73		0.23	-1.75		0.21										
CAL1B-CALIBRATION PISTON	2.08	0.12	1.26		-0.16	-0.29		0.62										
CAL2A-CALIBRATION PISTON	1.44	-0.26	-0.12		0.29	1.86		1.25										
CAL2B-CALIBRATION PISTON	1.07	1.17	-1.13		0.95	0.88		0.99										
MAXIMUM	2.08	1.93	2.64	1.32	3.63	3.38	3.24	2.71	1.93	1.76	1.73	-1.12	0.99	0.40	-2.72			-2.58
MINIMUM	0.07	0.12	-0.12	-0.29	0.06	-0.29	-0.68	0.19	1.78	0.05	0.31	-0.05	0.00	0.40	-1.32			1.23
RANGE(MAX-MIN)	2.010	1.810	2.760	1.610	3.570	3.670	3.920	2.520	0.150	1.710	1.420	-1.070	0.990	0.000	-1.400			-3.810
MEAN	0.483	0.833	0.908	0.557	1.213	1.005	0.848	0.449	1.855	0.936	0.338	-0.472	0.054	0.400	-2.114			-0.675
STANDARD DEVIATION	0.946	0.781	1.434	0.808	1.261	1.599	2.108	1.126	0.106	0.627	1.165	0.445	0.562	0.000	0.498			2.694

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

Rater= Zalewski, John

YI Values

\* Denotes parameters not used in Blue, Red, White & Yellow assessment

PartID	TOTALS	
ISMOP-ISM OIL PAN	0.49	
ISMRC-ISM ROCKER COVER	0.94	
SCAL1-VG TC COVER CAL	0.06	
SCAL2-VG TC COVER CAL	0.39	
MAXIMUM	0.94	
MINIMUM	0.06	
RANGE(MAX-MIN)	0.880	
MEAN	0.470	
STANDARD DEVIATION	0.363	

# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

## Demerit Piston Deposits

Rater	Parts Rated	-1<yi<=1	-2<yi<=2	-3<yi<=3	>3	Yi STD	Group	Group Color
Barrera, Tony	20	86.8%	99.1%	99.1%	0.9%	0.73	BLUE	
Castillo, George	14	75.0%	97.5%	100.0%	0.0%	0.89	WHITE	
Guarda, Waldyr	11	67.8%	90.0%	100.0%	0.0%	1.05	WHITE	
Hill, Howard	23	76.4%	96.4%	99.3%	0.7%	0.95	WHITE	
Hills, Barry	14	70.8%	94.2%	99.2%	0.8%	0.99	WHITE	
Holland, Steve	14	87.5%	99.2%	100.0%	0.0%	0.67	BLUE	
Kobrinetz, Jack	16	91.4%	100.0%	100.0%	0.0%	0.58	BLUE	
Lowsky, John	15	66.7%	90.9%	98.5%	1.5%	1.11	WHITE	
Radonich, Pete	21	91.5%	99.2%	100.0%	0.0%	0.56	BLUE	
Sanchez, Art	17	72.0%	93.9%	97.6%	2.4%	1.08	WHITE	
Shoda, Ron	20	81.1%	96.2%	100.0%	0.0%	0.88	WHITE	
Viera, Ralph	13	83.5%	97.3%	100.0%	0.0%	0.76	RED	
Yanchar, Paul	29	86.4%	99.0%	100.0%	0.0%	0.70	BLUE	
Avis, Steve	14	85.1%	96.7%	99.2%	0.8%	0.78	RED	
Borland, Robert	12	67.7%	96.1%	99.0%	1.0%	1.10	WHITE	
Caproni, David	13	67.9%	95.4%	99.1%	0.9%	1.06	WHITE	
Clapperty, Leon	11	64.5%	93.6%	100.0%	0.0%	1.03	WHITE	
Engelskirchen, Jim	10	67.1%	97.6%	100.0%	0.0%	0.86	WHITE	
Foecking, Brian	14	81.2%	97.4%	100.0%	0.0%	0.72	RED	
Greenland, Paul	10	82.9%	96.3%	100.0%	0.0%	0.78	RED	
Gutzwiller, Jim	6	69.8%	88.4%	97.7%	2.3%	1.14	YELLOW	
Langford, Mike	17	74.4%	100.0%	100.0%	0.0%	0.81	WHITE	
Lee, Manuel	17	42.7%	78.1%	93.9%	6.1%	1.70	YELLOW	
Lonsway, Chris	11	74.4%	94.4%	97.8%	2.2%	0.89	WHITE	
Lopez, Frank	10	68.3%	97.6%	100.0%	0.0%	0.90	WHITE	
May, Marianne	21	82.1%	100.0%	100.0%	0.0%	0.75	RED	
Pansza, Mike	14	85.4%	100.0%	100.0%	0.0%	0.70	BLUE	
Richerson, Jay	18	54.4%	92.2%	97.8%	2.2%	1.26	YELLOW	
Rodriguez, Jesse	19	82.7%	98.0%	100.0%	0.0%	0.80	RED	
Seiz, Ray	13	70.8%	93.4%	98.1%	1.9%	1.09	WHITE	
Sherrod, Jeff	10	65.3%	81.9%	95.8%	4.2%	1.30	YELLOW	
Smith, Russell	9	64.9%	94.6%	98.7%	1.4%	1.08	WHITE	
Trevino, Robert	16	84.3%	98.6%	100.0%	0.0%	0.75	RED	
Zalewski, John	20	46.0%	81.4%	96.5%	3.5%	1.40	YELLOW	

### Group Criteria

	Minimum Number of Parts Rated	Minimum Yi's Within 1 STD of mean	Minimum Yi's Within 2 STD of mean	Maximum Overall Yi STD	Group Totals
White	6	60%	90%	1.20	16
Red	6	80%	95%	0.85	7
Blue	6	85%	98%	0.75	6
Yellow	-	-	-	-	5



# HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

## SLUDGE

Rater	Parts Rated	-1<yi<=1	-2<yi<=2	-3<yi<=3	>3	Yi STD	Group	Group Color
Barrera, Tony	4	100.0%	100.0%	100.0%	0.0%	0.12	N/A	
Castillo, George	4	75.0%	100.0%	100.0%	0.0%	0.49	N/A	
Guarda, Waldyr	4	25.0%	100.0%	100.0%	0.0%	0.71	N/A	
Hill, Howard	4	75.0%	100.0%	100.0%	0.0%	0.94	N/A	
Hills, Barry	4	100.0%	100.0%	100.0%	0.0%	0.34	N/A	
Holland, Steve	4	100.0%	100.0%	100.0%	0.0%	0.65	N/A	
Kobrinetz, Jack	4	100.0%	100.0%	100.0%	0.0%	0.23	N/A	
Lowsky, John	4	25.0%	25.0%	25.0%	75.0%	1.28	N/A	
Radonich, Pete	4	100.0%	100.0%	100.0%	0.0%	0.52	N/A	
Sanchez, Art	4	75.0%	100.0%	100.0%	0.0%	0.74	N/A	
Shoda, Ron	4	100.0%	100.0%	100.0%	0.0%	0.48	N/A	
Viera, Ralph	4	100.0%	100.0%	100.0%	0.0%	0.27	N/A	
Yanchar, Paul	4	100.0%	100.0%	100.0%	0.0%	0.15	N/A	
Avis, Steve	4	50.0%	75.0%	100.0%	0.0%	1.18	N/A	
Caproni, David	4	100.0%	100.0%	100.0%	0.0%	0.19	N/A	
Clapperty, Leon	4	75.0%	100.0%	100.0%	0.0%	0.58	N/A	
Engelskirchen, Jim	2	100.0%	100.0%	100.0%	0.0%	0.06	N/A	
Foecking, Brian	4	100.0%	100.0%	100.0%	0.0%	0.50	N/A	
Greenland, Paul	4	75.0%	100.0%	100.0%	0.0%	0.80	N/A	
Gutzwiller, Jim	2	50.0%	100.0%	100.0%	0.0%	1.07	N/A	
Lee, Manuel	4	25.0%	50.0%	75.0%	25.0%	1.00	N/A	
Lonsway, Chris	4	100.0%	100.0%	100.0%	0.0%	0.51	N/A	
Lopez, Frank	4	100.0%	100.0%	100.0%	0.0%	0.36	N/A	
May, Marianne	4	100.0%	100.0%	100.0%	0.0%	0.33	N/A	
Pansza, Mike	4	75.0%	100.0%	100.0%	0.0%	0.20	N/A	
Rodriguez, Jesse	4	50.0%	75.0%	100.0%	0.0%	1.73	N/A	
Seiz, Ray	4	75.0%	100.0%	100.0%	0.0%	0.72	N/A	
Trevino, Robert	4	100.0%	100.0%	100.0%	0.0%	0.21	N/A	
Zalewski, John	4	100.0%	100.0%	100.0%	0.0%	0.36	N/A	

### Group Criteria

	Minimum Number of Parts Rated	Minimum Yi's Within 1 STD of mean	Minimum Yi's Within 2 STD of mean	Maximum Overall Yi STD	Group Totals
White	6	60%	90%	1.20	
Red	6	80%	95%	0.85	N/A
Blue	6	85%	98%	0.75	
Yellow	-	-	-	-	

HEAVY DUTY RATING WORKSHOP (October 6-10, 2008)

C13 Ring Carbon

Rater	Parts Rated	-1<yi<=1	-2<yi<=2	-3<yi<=3	>3	Yi STD	Group	Group Color
Barrera, Tony	24	79.2%	95.8%	100.0%	0.0%	0.73	WHITE	
Castillo, George	24	70.8%	100.0%	100.0%	0.0%	0.84	WHITE	
Guarda, Waldyr	24	70.8%	91.7%	100.0%	0.0%	0.99	WHITE	
Kobrinetz, Jack	24	87.5%	100.0%	100.0%	0.0%	0.67	BLUE	
Lowsky, John	6	33.3%	83.3%	100.0%	0.0%	1.04	YELLOW	
Viera, Ralph	24	91.7%	100.0%	100.0%	0.0%	0.59	BLUE	
Avis, Steve	24	75.0%	100.0%	100.0%	0.0%	0.75	WHITE	
Gutzwiller, Jim	6	50.0%	83.3%	100.0%	0.0%	0.69	YELLOW	
Lopez, Frank	12	91.7%	100.0%	100.0%	0.0%	0.64	BLUE	
May, Marianne	24	66.7%	95.8%	100.0%	0.0%	0.71	WHITE	
Seiz, Ray	18	16.7%	66.7%	100.0%	0.0%	1.62	YELLOW	
Trevino, Robert	6	83.3%	100.0%	100.0%	0.0%	0.86	WHITE	

Group Criteria

	Minimum Number of Parts Rated	Minimum Yi's Within 1 STD of mean	Minimum Yi's Within 2 STD of mean	Maximum Overall Yi STD	Group Totals
White	6	60%	90%	1.20	6
Red	6	80%	95%	0.85	0
Blue	6	85%	98%	0.75	3
Yellow	-	-	-	-	3