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Unapproved Minutes of the July 12, 2012 Sequence IV Surveillance Panel Conference Call

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A copy of the Agenda is included as Attachment 1

The attendance sheet is included as Attachment 2.

Bill Buscher agreed to be the motion and action item recorder for the meeting.

Minutes from the May 17, 2012 Conference call were approved.

Test Target Update.

Jo presented target data for reference oil 1006-2. Her attachment is included as attachment 3. A review of the history of 1006-2 was undertaken. The use of 1006-2 was suspended because of severe results outside the acceptance range and performance in other test areas. In February, the panel re-introduced the oil and agreed to review the targets when ten tests were obtained on the oil. During a conference call on May 17, 2012, a potential target update, based on 11 tests was reviewed. These results

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produced a mean of 102.63 and a standard deviation of 9.13. The panel elected not to adopt the 11 test targets and review a potential update when 15 tests have been obtained. After some additional discussion, the panel approved a motion (Grundza, 2nd Buscher) to use the 15 test targets, mean 103.39, s 13.68 for tests completing on or after 7/11/12. Also, the standard deviation for calculation of severity adjustments was updated to 14.87 for reference oil tests completing on or after 7/11/12. The panel also deemed this change as an urgent target update and this change will not be subject to the LTMS recommended two week review period. The motion was approved unanimously (10-0-0). The panel enacted an Action Item to review the targets again when 20 operationally valid tests have been obtained. The panel also addressed the reduced reference period. The length of calibration periods had been decreased from 6 months and 15 non reference oil tests to 3 months or 8 non reference oil tests. This action was taken in order to accelerate the gathering of reference oil data to expedite a target update, since the original targets were based on only 4 tests. The panel approved a motion (Buscher, 2nd Brys) to restore the calibration period to 6 months or 15 non reference oil tests. The motion was approved unanimously.

Hardware Issues.

Though not listed as an agenda item, Bill Buscher updated the panel on his efforts to contact Nissan to see if additional hardware can be obtained. Bill has had a number of conversations with Nissan and has determined that the cam, rocker arm shafts, rocker arms, oil filter and spark plugs will be available as production parts. These are direct replacement parts, available under a different part number. The current part number and replacement part number are tabulated below.

Description	Original Test Kit Parts	Alternate Parts
Camshaft	A3020-40F01	13020-40F01
Rocker Arm Shaft - Intake	13252-40F10	13252-40F1A
Rocker Arm Shaft - Exhaust	13245-40F10	13252-40F1A
Valve Rocker Arm - Intake	A3257-40F06	13257-40F06
Valve Rocker Arm - Intake	A3257-40F07	13257-40F07
Valve Rocker Arm - Exhaust	A3257-40F16	13257-40F16
Valve Rocker Arm - Exhaust	A3257-40F17	13257-40F17
Oil Filter	15208-H8903	15208-H890C
Spark Plug	22401-30R15	22401-30R15

One concern is that the part number is the same for both the intake and exhaust rocker arm shafts, and this might be a typo. These parts should be available through the dealer. It was suggested that the current hardware may also be available through the dealer and it was suggested that a set or two of the parts be purchased through a local dealer and then labs could see how these parts are identified. Bill also thought it might be a good idea if a lab or labs could perhaps obtain some of this hardware and run a test or two on it to see if there are any potential severity shifts.

Next meeting.

A conference call will be undertaken when 20 tests are obtained on reference oil 1006-2. The passenger car meeting will probably be held in October in Detroit. Bill Buscher and Matt Snider are working on identifying dates where meeting rooms will be available.

With a motion to adjourn from Bill and a second from Rich, the meeting was adjourned at 2:45 PM.

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Attachment 1

**Sequence IVA Surveillance Panel conference Call
July 12, 2012 @ 1:00PM CST**

Call in #: 866-588-1857

Pass Code: 2105226802

Agenda

1.0) Roll Call

2.0) Approval of minutes

2.1) Approve the minutes from the May 17, 2012 Sequence IVA Surveillance Panel conference call.

3.0) Action Item Review

3.1 None.

4.) Old Business

4.1 None.

5.) New Business

5.1 Review industry statisticians' recommendations (Seq IVA RO 1006-2 Targets 062712.pptx) and update targets for reference oil 1006-2.

5.2 Review reduced stand calibration period and discuss restoring.

6.) Next Meeting

Call of the chairman

7.) Meeting Adjourned

List of Participants

Name	Affiliation
Jerome Brys	Lubrizol
Jim Carter	Haltermann Solutions
Ed Altman	Afton
Rich Grundza	TMC
Bill Buscher	SwRI
Al Lopez	Intertek
Bruce Matthews	GM
Mike McMillan	Infinium
Doyle Boese	Infinium
Gordon Farnsworth	Infinium
Jo Martinez	Oronite
George Szappanos	Lubrizol
Matt Snider	GM
Ron Romano	Ford

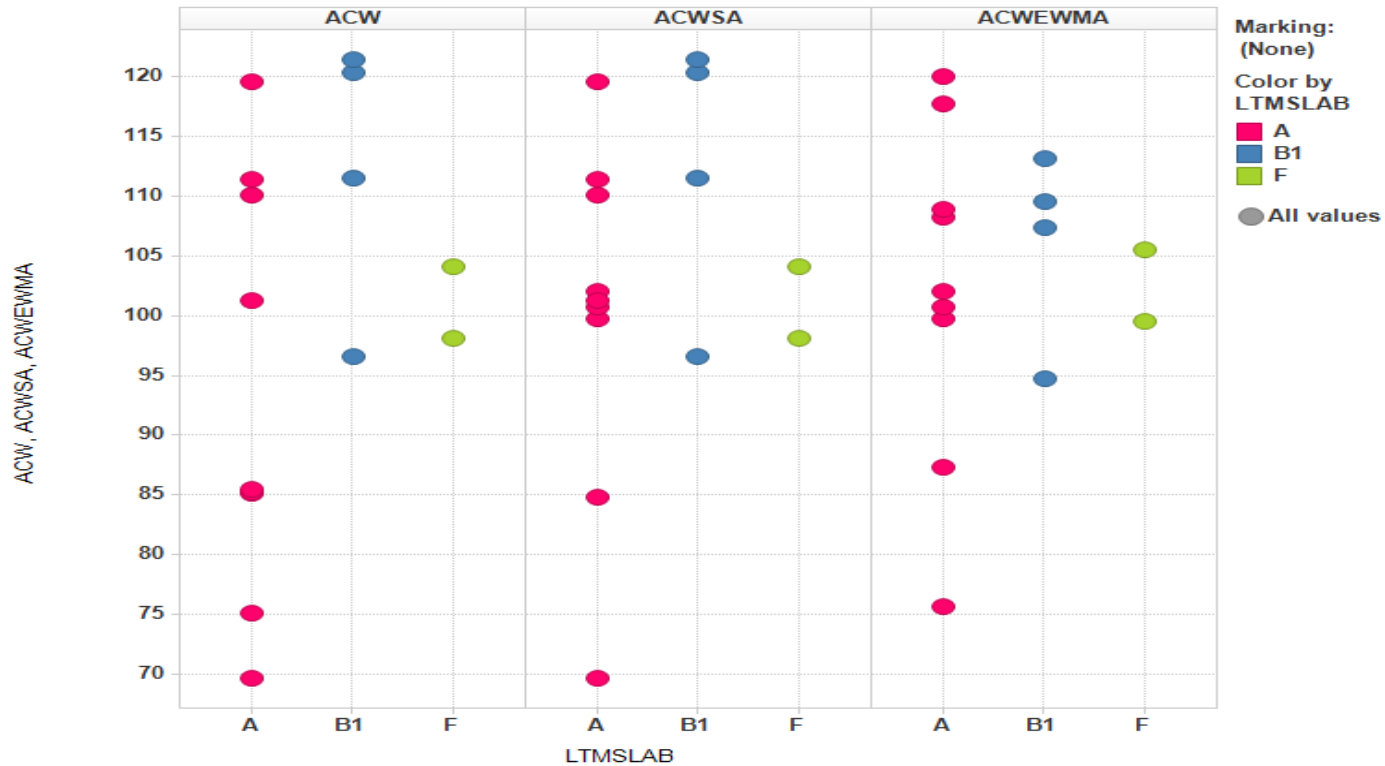
Seq IVA RO 1006-2 Targets

June 27, 2012

Mean and Standard Deviation

1006-2 Targets	Uncorrected	LSMeans	SA	Cont SA	Current	RO1007
Mean	99.65	102.38	103.39	103.33	100.18	84.76
Standard Deviation	16.51	15.38	13.68	11.41	18.65	15.40

Scatter Plot



Recommendation

- Use normal severity adjusted data to calculate mean and standard deviation (n=15)
 - Mean = 103.39 (Current=100.18, n=4)
 - Standard Deviation = 13.68 (Current=18.65, n=4)
- Use pooled s of 1007 and 1006-2 for severity adjustment
 - Pooled s = 14.87 (Current=15.72)
 - 1007: s=15.40 n=31
 - 1006-2: s=13.68 n=15

History of IVA RO Targets

Sequence IVA Reference Oil Targets					
Oil	n	Effective Dates		Average Camshaft Wear	
		From ¹	To ²	\bar{X}	s
1006	24 ⁴	8-19-98	2-30-99	115.80	9.47 ³
	5 ⁵	10-1-99	1-25-00	117.14 ⁵	12.23 ⁵
	10	1-26-00	5-23-01	121.38	9.86
	77	5-24-01	***	121.76	12.50
1006-2	6	2-11-02	7-18-02	88.74	12.50 ⁶
	11	7-19-02	1-20-04	90.72	11.16
	22	1-21-04	2-01-12	91.15	8.93
	4	2-2-12	***	100.18	18.65
1007	24 ⁴	8-19-98	9-30-99	95.58	9.47 ³
	11	5-24-01	12-31-02	92.12	16.76
	21	1-1-03	7-27-04	86.94	16.22
	31	7-28-04	***	84.76	15.40
1008	24 ⁴	8-19-98	9-30-99	40.16	9.47 ³
1009	5	12-18-02	4-30-04	21.03	6.23
	11	5-1-04	11-13-07	19.08	5.60
	29	11-14-07	6-1-11	18.76	7.05

- 1 Effective for all tests completed on or after this date
- 2 *** = currently in effect
- 3 Pooled s from GF-3 matrix analysis
- 4 GF-3 matrix n-size
- 5 Individual oil 1006 statistics from prove-out matrix
- 6 Standard deviation based on oil 1006