



Shear Stability and HTHSV Subgroup

- Shear Stability
- Data presented by International, Lubrizol, and Oronite
- Data indicates that extended Kurt Orbahn relates to Shear Stability of more severe engines
- Subgroup of the subgroup will define a matrix of test oils (Michael Covitch)
- Testing plan
- International Engine stand available end March
- Independent lab field test early April (cost TBD)
- Target to get field correlation data by June ASTM if feasible
- HTHS Viscosity Measurement
- Ted Selby presented data indicating that TBS can be used with sooted oils.
- Teleconference will be scheduled mid March.

Unit/Sample	Sample Date	Miles	Fuel	TS	H2O	Vis 100	Grad	Glycol	TBN
1- #1	9/15/2002	839	1	0.5	0.1	13.1	40	Neg	6.94
# 2	9/24/2002	2041	1	0.5	0.1	12.5	30	Neg	6.84
# 3	9/29/2002	2794	1	0.5	0.1	12.4	30	Neg	5.44
# 4	10/15/2002	3762	1	1	0.1	12.3	30	Neg	6.94
# 5	10/15/2002	5155	1	1	0.1	12.1	30	Neg	6.16
# 6	10/20/2002	6000	1	1.5	0.1	12	30	Neg	6.72
2 - #1	9/15/2002	884	1	0.5	0.1	13.1	40	Neg	6.05
# 2	9/24/2002	2235	1	0.5	0.1	12.4	30	Neg	7.14
# 3	9/29/2002	2887	1	0.5	0.1	12	30	Neg	4.94
# 4	10/14/2002	3777	1	0.5	0.1	11.8	30	Neg	6.94
# 5	10/22/2002	5035	1	0.5	0.1	11.8	30	Neg	6.94
# 6	10/20/2002	6000	1	0.5	0.1	11.7	30	Neg	6.94
3 - #1	9/18/2002	958	1	0.5	0.1	13.4	40	Neg	6.5
# 2	9/26/2002	1912	1	0.5	0.1	12.6	40	Neg	7.24
# 3	10/4/2002	3104	1	0.5	0.1	12.2	30	Neg	5.14
# 4	10/11/2002	3821	1	0.5	0.1	12.8	40	Neg	6.94
# 5	10/18/2002	4919	1	0.5	0.1	12.1	30	Neg	6.72
#6	10/21/2002	6000	1	0.5	0.1	12.1	30	Neg	7.5
4 - #1	10/11/2002	764	1	0.5	0.1	13.9	40	Neg	7.5
# 2	10/18/2002	1739	1	0.5	0.1	12.9	40	Neg	7.5
# 3	10/21/2002	1996	1	0.5	0.1	12.8	40	Neg	6.94
# 4	10/23/2002	2469	1	0.5	0.1	12.7	40	Neg	7.5
# 5	10/24/2002	2718	1	0.5	0.1	12.5	30	Neg	7.5
5 - #1	9/19/2002	1385	1	0.5	0.1	13.2	40	Neg	7.17
# 2	9/24/2002	2060	1	0.5	0.1	13	40	Neg	7.04
# 3	9/29/2002	2890	1	0.5	0.1	12.7	40	Neg	5.54
# 4	10/6/2002	3702	1	0.5	0.1	12.6	40	Neg	7.5
# 5	10/18/2002	4692	1	1	0.1	12.4	30	Neg	7.5
# 6	10/27/2002	6000	1	1	0.1	12.2	30	Neg	7.5
6 - #1	9/13/2002	1202	2	0.5	0.2	13.4	40	Neg	6.38
# 2	9/19/2002	2222	1	0.5	0.1	12.4	30	Neg	6.05
# 3	9/26/2002	2990	1	0.5	0.1	12.1	30	Neg	5.64
# 4	10/4/2002	3832	1	0.5	0.1	11.6	30	Neg	4.84
# 5	10/11/2002	4926	1	0.5	0.1	11.4	30	Neg	6.94
# 6	10/17/2002	6000	1	0.5	0.1	11.4	30	Neg	6.94
7 - #1	9/3/2002	1016	2	0.5	0.2	13.3	40	Neg	6.16
# 2	9/11/2002	2134	2	0.5	0.2	12.8	40	Neg	6.38
# 3	9/19/2002	3276	1	0.5	0.1	12.3	30	Neg	5.26
# 4	9/24/2002	3941	1	0.5	0.1	12.2	30	Neg	5.1
# 5	9/29/2002	4855	1	1	0.1	12	30	Neg	5.04
# 6	10/10/2002	6000	1	1.5	0.1	11.7	30	Neg	5.82
Please note that all lab results reflecting a less than amount (<) had to be converted to number									
Example: Mo (Molybdenum) readings that show 5 ppm are actually <5 unless a higher number									
FDD = <2.0			H2O = <.2						