

D5800B Volatility Workshop

PAC LP

Houston, TX

January 30-31, 2013

Agenda – Day 1

8 am	Introductions	All
	Review of ASTM policies	D. Gaal
	Safety	D. Gaal
	Background, purpose for workshop	D. Gaal
	Presentation on instrumentation – overview, design, changes	PAC
	Review of previous best practices/actions from 2002 and 2012	D. Gaal
	<u>Activity:</u> Review test method while groups are running the test at available instruments	All
4 pm	Review discussion/closing for day	D. Gaal

Agenda – Day 2

8:00 am	Review activities from previous day	All
	Develop list of recommended practices	All
	Preparation for matrix of new industry reference oils	D. Gaal
Noon	Final comments/Next steps/Closing	D. Gaal

Anti-trust Statement

ASTM Antitrust Statement

ASTM International is a not-for-profit organization and developer of voluntary consensus standards. ASTM's leadership in international standards development is driven by the contributions of its members: more than 30,000 technical experts and business professionals representing 135 countries.

The purpose of antitrust laws is to preserve economic competition in the marketplace by prohibiting, among other things, unreasonable restraints of trade. In ASTM activities, it is important to recognize that participants often represent competitive interests. Antitrust laws require that all competition be open and unrestricted.

It is ASTM's policy, and the policy of each of its committees and subcommittees, to conduct all business and activity in full compliance with international, federal and state antitrust and competition laws. The ASTM Board of Directors has adopted an antitrust policy which is found in Section 19 of ASTM Regulations Governing Technical Committees. All members need to be aware of and compliant with this policy. The Regulations are accessible on the ASTM website (<http://www.astm.org/COMMIT/Regs.pdf>) and copies of the antitrust policy are available at the registration desk.

Recording Policy

- ASTM policy is that electronic recordings are prohibited at meetings.
- Does anyone have a concern about this policy?

Introductions

- Please introduce yourself
 - Name
 - Company
 - Location
 - Job Function

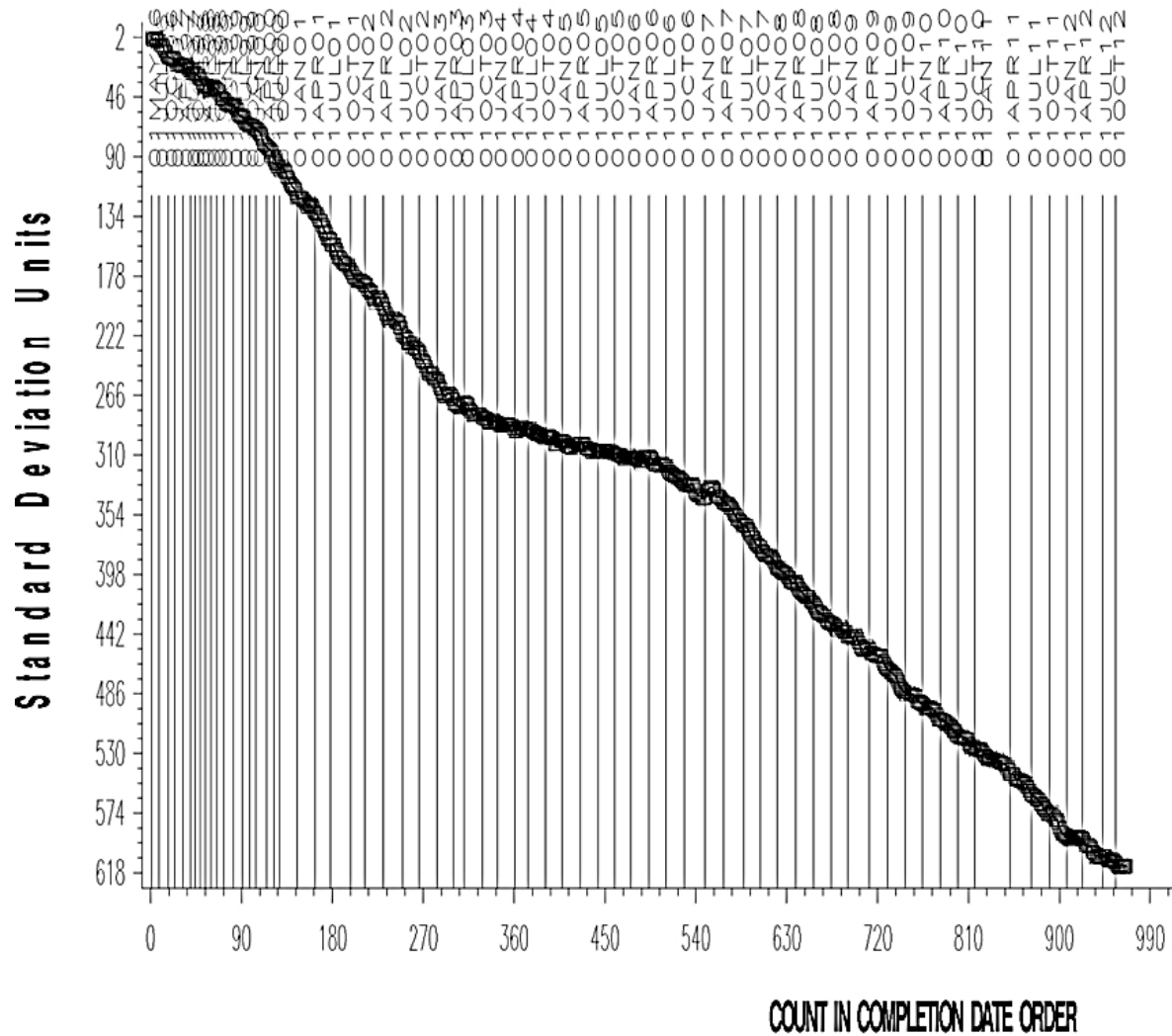
Purpose of Workshop

- To discuss the operational details which may be impacting the long-term severity trend seen in D5800 test monitoring
- To develop best practices and share information among knowledgeable people across the industry, as the last D5800 workshop was in 2002

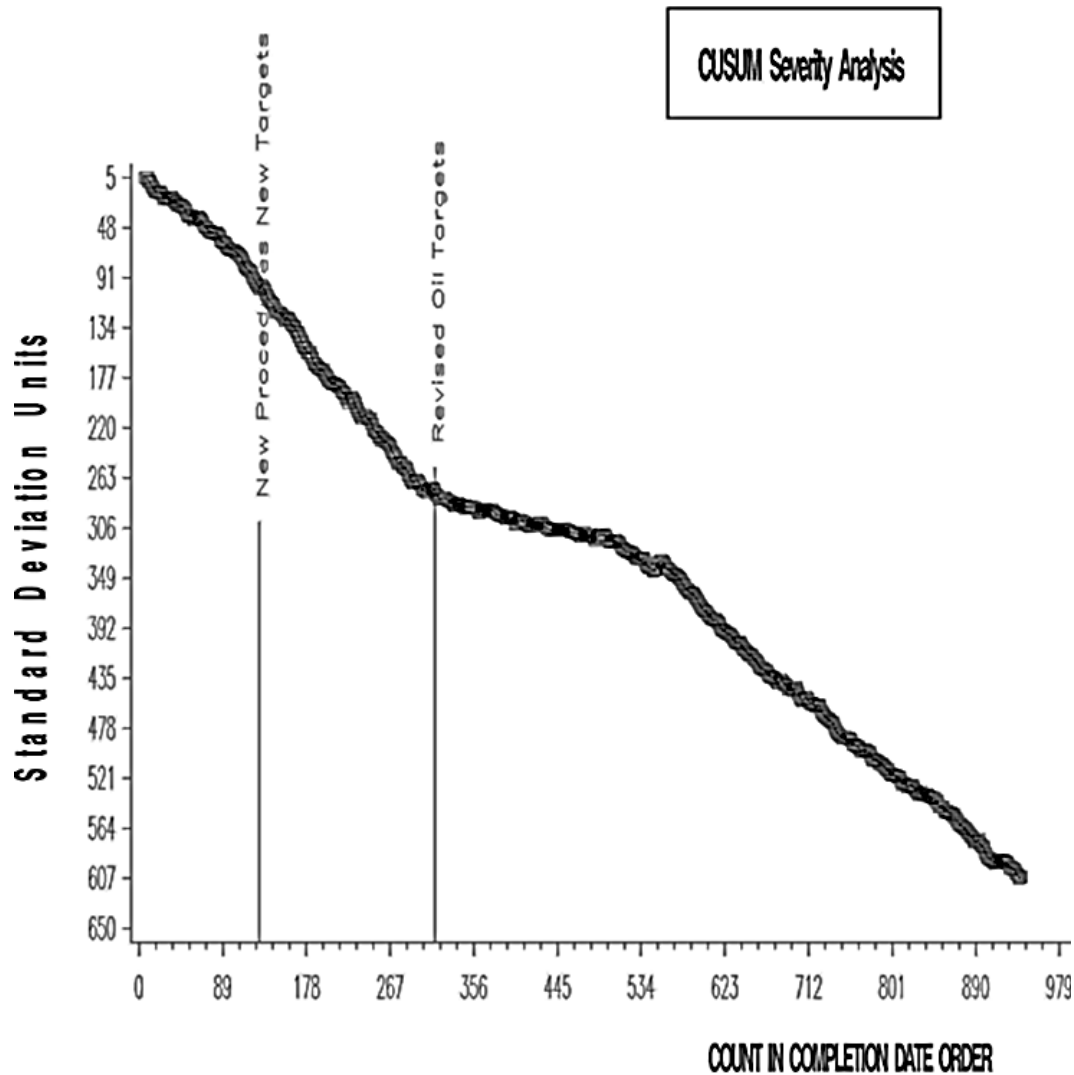
Background for Workshop

- Since July 2006, there has been a consistent severity trend seen in the D5800 test monitoring done by the ASTM D02.B0.07 subcommittee
- The D5800 test monitoring uses three reference oils, Oils 52, 55, and 58

Severity Trend in D5800 Monitoring



Severity Trend in D5800 Monitoring



Breakdown of Monitoring Results

TABLE 8
Current Period Precision and Severity Estimates by Test Method Procedure

Sample Evaporation Loss, mass %	n	df	Pooled s	Mean Δ/s
Procedure A	0	0	---	---
Procedure B	29	26	0.67	0.71
Procedure C	3	0	---	-1.18

Oil Code	Parameter	Targets			10/1/10 - 3/31/11				4/1/11 - 9/30/11				10/1/11 - 3/31/12			
		n	Mean	sR	n	Mean	sR	Mean Δ/s	n	Mean	sR	Mean Δ/s	n	Mean	sR	Mean Δ/s
52	% volatility loss	33	13.75	0.61	10	14.5	0.52	1.18	17	14.7	0.68	1.52	9	14.7	0.84	1.52
55	% volatility loss	32	17.09	0.76	15	17.5	0.91	0.49	10	17.4	0.54	0.42	9	17.7	0.78	0.76
58	% volatility loss	37	15.20	0.72	9	15.0	0.70	-0.27	12	15.2	0.50	0.01	14	15.0	0.74	-0.24

- Severity is significant with Oils 52 and 55, but not Oil 58

Next Steps

- Replace Oils 52 and 55 as reference oils
 - Process in progress
- Look at other factors which could be impacting test severity
 - Hold workshop to discuss potential operational differences among labs and develop new best practices for current instrumentation