

D5133 Scanning Brookfield Surveillance Panel Teleconference Minutes

A D5133 Scanning Brookfield Surveillance Panel Teleconference was held on Wednesday, November 4, 2015 at 10:00 CDT. The following were in attendance:

Matt Schlaff – Intertek Automotive Research
Jon Evans – Savant
Greg Miiller – Savant
Dennis Gaal – ExxonMobil
Mike Birke – Southwest Research Institute
Tom Schofield – The ASTM Test Monitoring Center
Cameron Toy – Chevron Lubricants

A presentation was given (included below) that discussed the mild bias that was exhibited from the periods April 2013 to April 2014 by the discriminating reference oil 62. The subsequent periods following have shown a return to the mean. It was discussed that a similar issue was brought up during the Dec. 2011 ASTM meeting. Both times the issue was raised, the bias improved the following periods. Then, there was discussion of the critical parameters: preheating time, precooling time, and the time between preheating and the start of test. A round robin from 1998 determined that these times are critical parameters, and affect the precision of the test. It was suggested that these parameters be a point of emphasis at the upcoming ASTM meeting in December.

The meeting was adjourned at approximately 10:15 CDT.

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ASTM Subcommittee D02.B0.07

11/4/2015

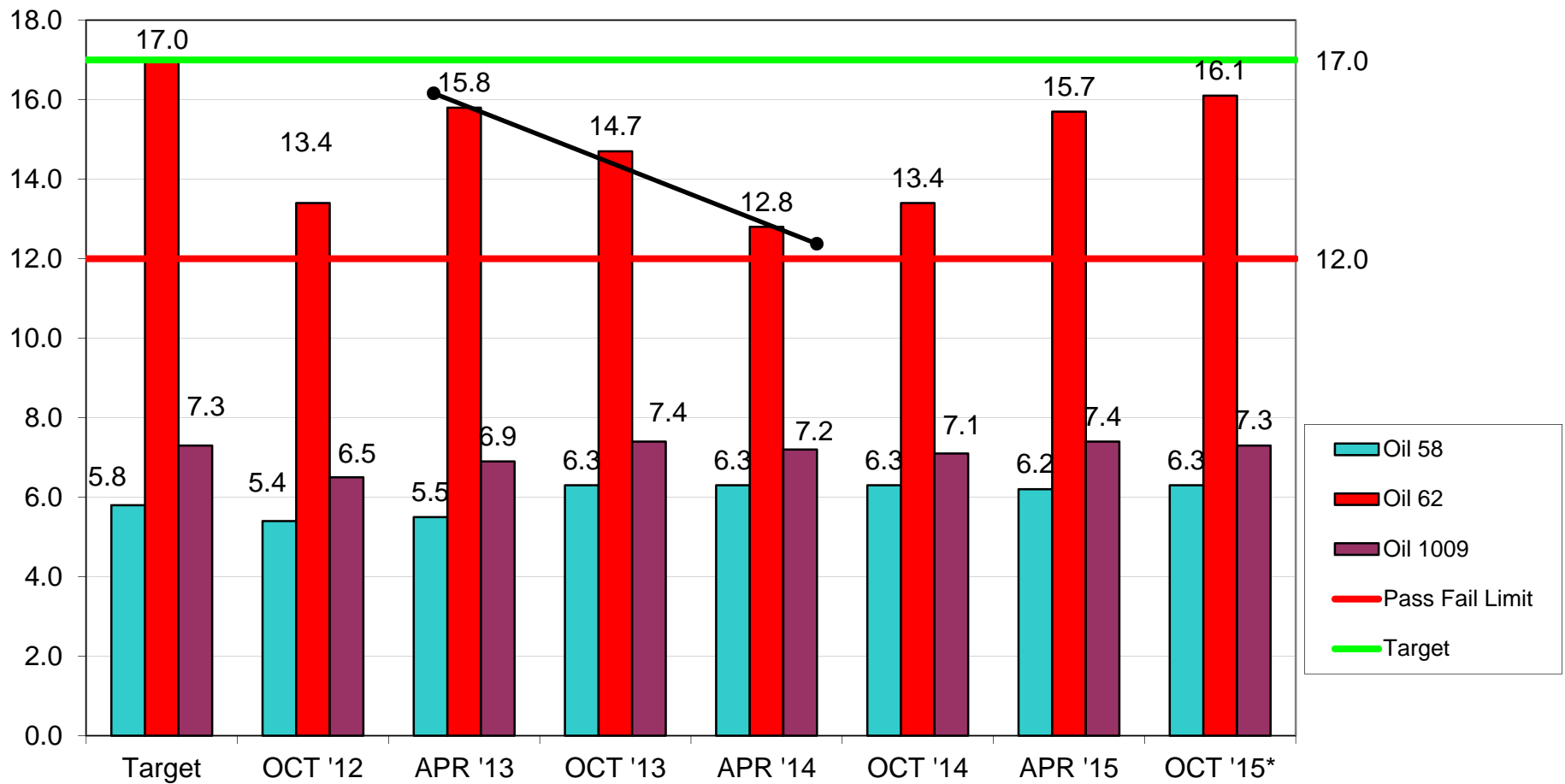
Matt Schlaff

ASTM Antitrust and Recording Policy

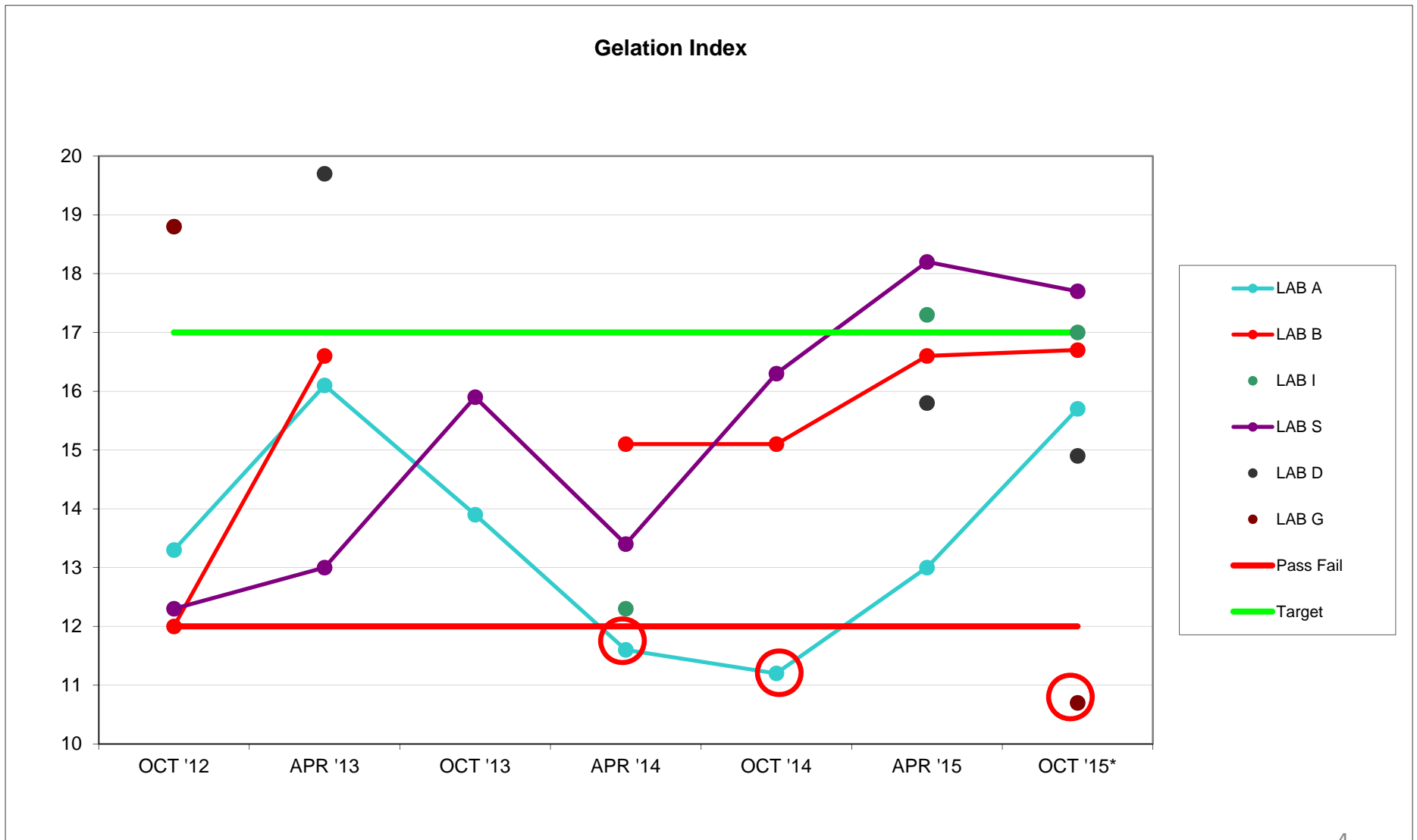
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- *Electronic recording of ASTM meetings is prohibited.*

Mean: By Period By Oil

Gelation Index
Mean



Oil 62 By Lab



B07 D 5133 Surveillance Panel

- Importance of Pre-heating and Pre-cooling on precision was mentioned in June 2011
- Findings from Round Robin Performed in 1998
 - Precision Improves if 1) Preheating kept to less than 120 minutes and 2) Time in cold bath before start of test is less than 30 minutes
 - Both Limits are Specified in Method but Could Easily be Missed.
- Perhaps these notes found the intended audience

Table: 11: Precision Statement By Oil: Gelation Index							
Oil	Mean GI	Sr	SR	r	R	r as % of Mean avg = 18%	R as % of Mean avg = 18%
113	15.9	1.5	1.8	4.2	5.1	26	32
114	16.5	2.4	3.6	6.8	10	41	61

Table: 13: Precision Statement By Oil: Gelation Index (Time in Cold Bath 30 min or Less)							
Oil	Mean GI	Sr	SR	r	R	r as % of Mean avg = 18%	R as % of Mean avg = 18%
113	16.1	1.1	1.4	3.1	3.9	19	24
114	16.2	2.5	3.2	5.9	9	42	55

Table: 14: Precision Statement By Oil: Gelation Index (Time in Cold Bath 30 min or Less; Preheat Time 120 Min or Less)							
Oil	Mean GI	Sr	SR	r	R	r as % of Mean avg = 18%	R as % of Mean avg = 18%
113	15.9	1.1	1.4	3	3.8	19	24
114	16.7	1.9	3	5.4	8.4	32	50

Actions

- Continue doing what you are doing...
- Review internally that preheat and precooling specifications are being met
- Others?