

10/27/2022

D5133 Scanning Brookfield Surveillance Panel Teleconference Minutes

A D5133 Scanning Brookfield Surveillance Panel Teleconference was held on Tuesday October 27th 2022 at 9:30 am CDT. The following were in attendance:

Mike	Jennings	Afton Chemical
Alexandera	Romo-Mendez	Chevron Oronite
Ian	Abaigar	Chevron Oronite
John	Loop	Test Monitoring Center
Matt	Schlaff	Intertek Automotive Research
Karina	Gil	Intertek Automotive Research
Yong-Li	McFarland	Southwest Research Institute
Mike	Birke	Southwest Research Institute
Adam	Ramos	Southwest Research Institute
John	Bucci	Savant Group
Maggie	Smerdon	Savant Group
Gordon	Cox	Savant Group
Greg	Miller	Tannas Company

The antitrust statement was reviewed followed by roll call and review of membership.

Oil GIC18

Data was presented on oil GIC18. There were 13 data points collected and two means and limits were proposed: one using a simple average and one using a lab weighted average. After discussion John Bucci made a motion to adopt the lab weighted average and limits and that the limits be re-evaluated once 30 total data points have been collected. The motion was seconded by John Loop. The motion passed unanimously.

For new business, it was discussed that the Technical Guidance Committee (TGC) had a meeting. The meeting was to discuss the scope and purpose of the TGC, and how it can help surveillance panels, particularly with control charting and performing precision matrices. The floor was then open for any new business. None was presented. The meeting was adjourned at 10:05 am.

Respectfully Submitted,
Matt Schlaff
Intertek Automotive Research
ASTM D02.0B.07 D5133 Surveillance Panel Chair

10/27/2022

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D874 SCANNING BROOKFIELD SURVEILLANCE PANEL TELECONFERENCE

Matt Schiaff
Intertek Automotive Research
10/27/2022



AGENDA

- Antitrust statement
- Roll Call
- New Reference GIC18 Round Robin
- Adjournment

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>.

- Electronic recording of ASTM meetings is prohibited.

ROLL CALL



OIL GIC18



- To add a third reference oil after oil 58 became discrimination oil
- To be a borderline oil – Current GF6 limit is 12.0 for GI

Table 1
D5133 Reference Oil Targets and Acceptance Bands

Test	Oil Code	Parameter	n	Mean	sR	Acceptance Bands*	
						Lower	Upper
GI by D5133	1009	Gelation Index	16	7.3	0.68	6.0	8.6
	62	Gelation Index	35	17.0	3.90	9.4	24.6
	GLA17	Gelation Index	18	19.0	1.87	15.4	22.7
	58	Gelation Index (Discrimination Oil)	17	<6.0	N/A	<6.0	7.2
	GIC18	Gelation Index	13	10.0	1.21	7.6	12.3
	GIC18	Gelation Index	13	10.3	1.21	7.9	12.7

*95% Acceptance Bands = Mean +/- (1.960 x sR)

RAW DATA AND CALCULATION OF MEANS



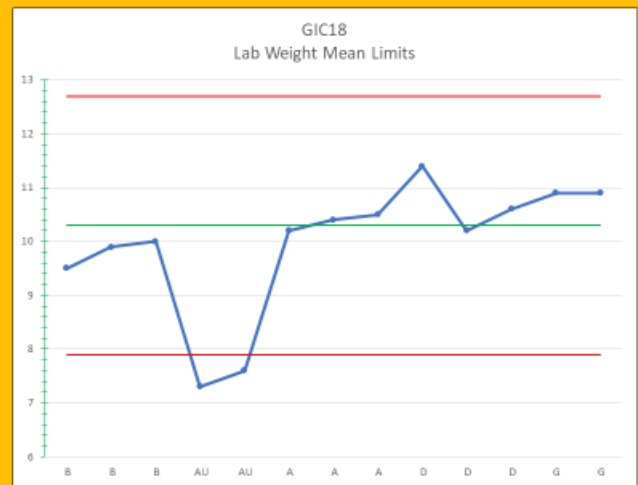
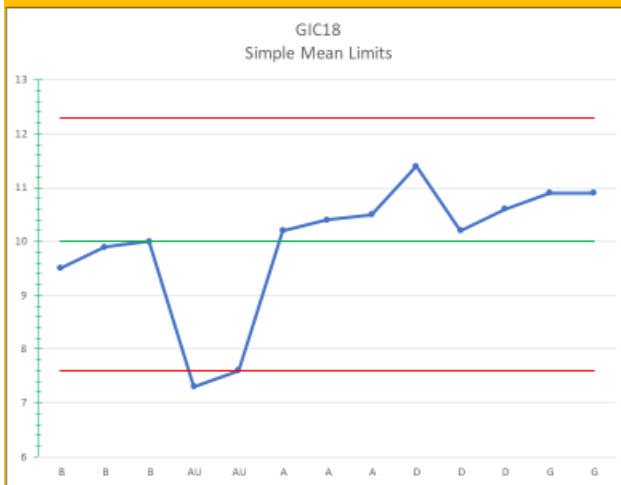
Lab	Value
B	9.5
B	9.9
B	10
AU	7.3
AU	7.6
A	10.2
A	10.4
A	10.5
D	11.4
D	10.2
D	10.6
G	10.9
G	10.9

Simple Mean	
Mean	10.0
s.d.	1.21
n	13
Bands	7.6 12.3
Range	7.3 11.4

Data Contributed by lab since 10/01/2020				
Lab	AC	OC	Grand Total	%
A	89	8	97	31%
AU	9		9	3%
AY	8		8	3%
B	48		48	15%
D	68	24	92	30%
E1	8	1	9	3%
G	28	8	36	12%
I	6		6	2%
S	6		6	2%
Grand Total	270	41	311	

Lab	Average	Weight Contribution	
B	9.8	15%	1.5
AU	7.5	3%	0.2
A	10.4	31%	3.2
D	10.7	30%	3.2
G	10.9	12%	1.3
Simple Average	10.0	9%	0.9
Lab Weighted Average	10.3		

CONTROL CHART COMPARISON



POTENTIAL MOTIONS



- Accept GIC18 as addition reference oil and use simple average for acceptance bands
Mean: 10.0 Limits: 7.6 to 12.3
- Accept GIC18 as addition reference oil and use lab weighted average for acceptance bands
Mean: 10.3 Limits: 7.9 to 12.7
- Other options?
- Re-evaluate after more data has been generated (30+ points)

NEW BUSINESS



- Technical Guidance Committee (TGC) recent meeting
 - Scope and Purpose of TGC
 - Control Chart System
 - Precision Matrix
 - Actions when there are issues with control charts and reference oils
- Any other new business

DISCUSSION



Thank you.