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Meeting Minutes of the Technical Guidance Committee In-Person Meeting

JW Marriott, Austin, TX

June 17, 2024

Scheduled Meeting Time 4:00 – 5:30 PM

Reply to: Patrick Lang

Southwest Research Institute, 6220 Culebra Road San Antonio, TX 78228

Phone: 210-522-2820, patrick.lang@swri.org

The meeting was called to order at 4:00 PM by Chairman Pat Lang.

Agenda:

The meeting agenda can be found as attachment #1.

Membership Review:

The attendance list can be found as attachment #2.

Review and Acceptance of Minutes:

Pat Lang requested approval of the December 4, 2023 meeting minutes held during December ASTM in New Orleans. No corrections or additions were requested. A motion for approval was made by Pat Lang and seconded by Robert Stockwell. No objections were voiced; the minutes were approved as written.

Action Item List:

The action item list was reviewed; see Attachment #3 for more details.

Fuels Task Force:

Pat Lang reported that there has been no activity in the fuels task force this period. All of the action items have been completed. If there are any new items to be added, please contact Mike Lochte at SwRI or the TGC chairman.

Rating Task Force:

Bob Campbell provided the rating task force update; the full report can be found as Attachment #4.

- Workshop Formats have changed to better support standardized testing. The format will be as follows:
 - Spring Workshop is now the "Standardized Testing Deposit Workshop" for HD and PCMO with testing lab personnel as the attendees.
 - o Fall Workshop will cover the field-testing activities. Anyone interested can attend.
- A spring <u>combined</u> workshop was held in San Antonio March 11, 2024. There were 20 raters in attendance. This combined HD and LD workshop continues to be well received.

During the rating update, Bob Campbell reported that Sequence VH oil screen clogging (OSC) was added to the parts that were rated during the workshop. Bob showed a summary table in his report that demonstrated the variability in rating this parameter. Refer to table and plot in attached report for additional details. During the workshop raters agreed that the official definitions of debris and clogging need further description especially in the case where the outline of the screen hole is no longer visible.

There was a lengthy discussion on oil screen clogging after Bob completed his report. Al Lopez commented that in his opinion, oil screen clogging is a problem, and it needs to be addressed before the next rating workshop. Mike Deegan commented with his ILSAC Chairman hat on that he is not comfortable with the oil screen clogging variability that the test is currently exhibiting.

The group was reminded that oil screen clogging was dropped as a pass/fail parameter in GF-6 because it was so variable. It was also suggested that if OSC is a pass/fail parameter in any other specifications that it should be taken under advisement on how the VH development group recognized it would be

difficult to put a limit on a parameter that can produce results on either end of the rating scale with valid reference tests on the same oil.

The general consensus of the group was that something needed to be done to address OSC. Bob Campbell asked the group for suggestions on how to get this done. Jeff Clark from the TMC stated that an official request should be put into the Sequence VH Surveillance Panel to take a look at it.

It should be noted here that the Sequence VH Surveillance Panel had been meeting regularly prior to this TGC Meeting and discussed the concerns with oil screen clogging many times. As a result, asking the VH Panel to review this would be asking for something they have already been doing.

Robert Stockwell stated that OSC severity is an important item and needs to be addressed.

Dave Duncan from Richful asked the group the question "Should we be accepting a test with this level of precision". Is this test parameter out of control?

Al Lopez commented that OSC was a pass/fail parameter in the VG. It is probably worth looking at the data to refresh on how variable it was in that test. Al further commented that it is his opinion that OSC in the VH has changed, and he feels it is related to the current batch of fuel.

Joe Franklin recommended that the issue of oil screen clogging be brought up to the Passenger Car Engine Oil Classification Panel which is meeting tomorrow and see what guidance they may have to address it.

The discussion was closed out with Jeff Clark recommending that the Sequence VH Surveillance Panel be officially tasked with defining sludge/debris/clogging as it relates to oil screen rating. This needs to be documented in the procedure when completed. This task will essentially be passed down to the Rating Task Force to handle.

Stats Topics:

No stats topics that were discussed during this meeting.

Old Business:

Surveillance Panel Chair Handbook

On behalf of Andrew Stevens, Pat provided an update on the status of the Surveillance Panel Handbook. Pat started with a special thanks to all that assisted with generating the document and especially Yong-Li McFarland, Maddie Dellinger and Andrew Stevens for their focused efforts in pulling it all together into this latest version. The document is near completion and has gone through the initial reviewed by the editor. Pat displayed the document on the screen and scrolled through the various sections (version displayed can be found as attachment 5).

The goal is to review any additional comments and incorporate any final changes and get the final draft to the editor so that the reviewed version can be shown during December 2024 ASTM.

New Business:

Test Out-of-Control Document

Pat Lang reported that the next action item that will be addressed is the review of the "Out-of-Control" document. One item that will need to be updated is the changes associated with the new LTMS system that have been implemented since the document was created.

TGC Files on TMC Website

Pat Lang reported that he will work with the TMC to refine access to the various TGC files on the TMC website.

The meeting adjourned at 17:05 CST

Next Meeting:

The next meeting will be at the call of the chairman.

Attachment #1
Agenda
June 17, 2024

AGENDA

ASTM Technical Guidance Committee Meeting

Patrick Lang – Chairman Monday June 17, 2024 – 4:00 PM to 5:30 PM JW Marriott, Austin, TX Meeting Room: Level 2-Brazos

- 1. Attendance
- 2. Chairman's Comments
- 3. Review & Acceptance of Minutes
 - 3.1. Acceptance of the December 4, 2023, meeting minutes (New Orleans). Minutes have been posted to the TMC website.
- 4. Review Action Item List (Pat Lang)
- 5. Fuels Task Force Update (Pat Lang)
 - 5.1. No Activity this period (all action items have been addressed)
- 6. Rating Task Force Update (Bob Campbell)
- 7. Stats Topics
 - 7.1. No new items for this reporting period.
- 8. Old Business
 - 8.1. Surveillance Panel Handbook Update
- 9. New Business
 - 9.1. Review and update "Out-of-Control" Document
 - 9.2. Any other new business?
- 10. Next Meeting: To be determined
- 11. Adjournment

Attachment #2
Attendance List
June 17, 2024

Technical Guidance Committee----Voting Membership List 6-17-24

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Attachment #3
Action Item List
June 17, 2024

Technical Guidance Committee (TGC)

Action Items List Status as of 6-17-24:

- 1. <u>Action Item</u> Create a Surveillance Panel Chairman Handbook to document the responsibilities associated with chairmanship positions.
 - In final edit: update provided today.
- 2. <u>Action Item</u> TGC to review the current document for "out of control" tests.
 - Open
- 3. <u>Action Item</u> TGC to work on generating test procedure wording that would address the handling of testing anomalies.
 - Open

Attachment #4 Rating Task Force Report June 17, 2024



Rater Task Force Update to TGC

June 17, 2024

Passion for Solutions®

As a Reminder... Format Changed

▶ Formats have changed to better support Standardized testing

- Spring "Standardized Testing Deposit Workshop"
 - HD and PCMO
 - Invitees are from labs who participate in our industry
 - Ability to calibrate for all standardized test areas with single visit
- ◆ Fall "Field Test Rating Workshop"
 - Invitees Anyone interested



Reminder...Standardized Testing Deposit Workshop

Second official combined workshop help week of 3/11/2024 in San Antonio

- ◆ Test labs only 20 raters split into two groups
- ▲ Data indicates raters generally in a good spot
 - Oil Screen Clogging is problematic
- New format continues to be well received

See report on TMC website for details

https://www.astmtmc.org/ftp/refdata/gas/rating_workshop_data/20 24/Final%20Report%20-%202024%20Standardized%20Testing%20Rating%20Workshop. pdf



Piston Rating Example - Seq IIIH

Rater	G1TOT	G2TOT	G3TOT	L2TOT	L3TOT	FRTOT	RRTOT
	0.96	1.57	9.54	2.60	6.78	9.90	9.90
_	0.98	1.68	9.59	2.58	6.22	9.80	9.80
	0.97	1.96	9.68	2.56	6.59	9.86	9.86
	0.80	1.56	9.61	2.78	6.75	9.75	9.75
	0.61	1.44	9.49	2.23	6.47	9.89	9.89
	0.77	1.63	9.45	2.33	6.96	9.90	9.90
	0.96	1.77	9.76	2.53	6.31	9.90	9.90
	0.64	1.86	9.66	2.27	6.60	9.90	9.90
	0.83	1.83	9.66	2.08	6.59	9.90	9.90
	0.75	1.45	9.68	3.10	6.51	9.90	9.90
	0.75	1.61	9.66	2.56	6.29	9.90	9.90
	0.80	1.81	9.65	2.47	6.12	9.90	9.90
	0.80	1.72	9.56	2.59	6.37	9.90	9.90
	0.83	1.68	9.70	2.28	6.76	9.90	9.90
	0.75	1.57	9.78	2.45	6.57	9.90	9.90
	0.85	1.69	9.57	2.80	6.35	9.90	9.90
	0.88	1.50	9.60	2.79	6.77	9.70	9.70
	0.76	1.57	9.58	2.44	6.28	9.90	9.90
	0.95	1.81	9.54	2.59	6.73	9.90	9.90
	0.91	1.78	9.51	2.55	6.71	9.90	9.90
MAXIMUM	0.96	1.81	9.70	2.79	6.78	9.90	9.90
MINIMUM	0.61	1.44	9.49	2.23	6.12	9.70	9.70
RANGE(MAX-MIN)	0.350	0.370	0.210	0.560	0.660	0.200	0.200
MEAN	0.836	1.650	9.586	2.509	6.579	9.874	9.874
STANDARD DEVIATION	0.117	0.143	0.100	0.181	0.255	0.100	0.100
N SIZE	20.000						•

PART_ID	RATER	WPD
B3		6.01
B3		5.828
B3		5.9885
B3		5.98
B3		5.786
B3		5.961
B3		5.8755
B3		5.9255
B3		5.8855
B3		5.9525
В3		5.8335
B3		5.8035
B3		5.8475
B3		5.9455
B3		5.951
B3		5.9025
B3		5.9845
B3		5.805
B3		6
B3		5.976

Individual undercrown ratings from different piston used to complete WPD calculation

WPD Range = 5.8 to 6.0



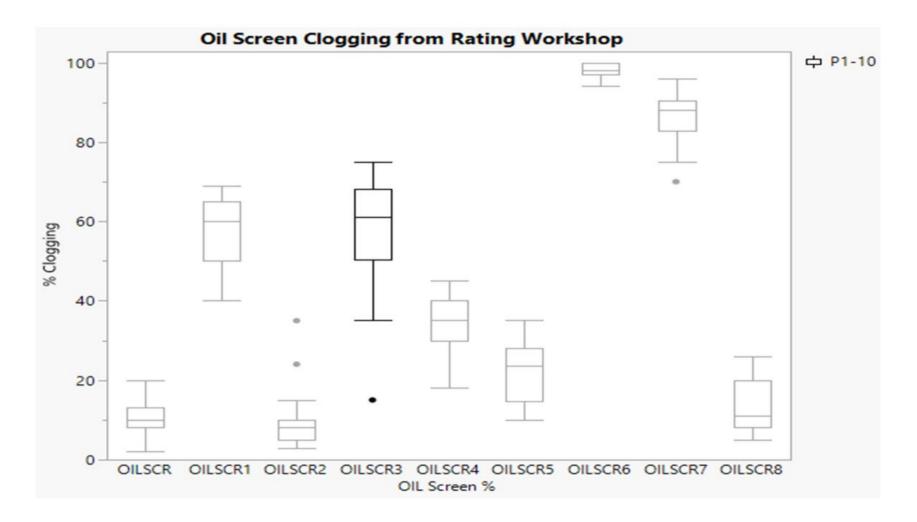
Oil Screen Concerns

▶ Due to industry concerns over Oil Screen Ratings, in addition to the traditional one required for calibration, 8 others were added to the workshop

	Avg	Avg Min	
Oil Screen	10	2	20
Oil Screen 1	58	40	69
Oil Screen 2	9	3	24
Oil Screen 3	58	58 15	
Oil Screen 4	35	35 18	
Oil Screen 5	23	23 10	
Oil Screen 6	98	94 100	
Oil Screen 7	86 70		96
Oil Screen 8	13	5	26



Oil Screen Clogging





Oil Screen Thoughts

- Raters had good and lengthy discussion around screen ratings
 - ▲ Extremely subjective, challenging and variable
 - ◆ Clarity around clogging vs. not-clogged isn't clear
 - Agreed that clogging should be defined as when the outline of the screen hole is no longer visible
- Will continue to introduce additional screens to the workshop



Next Workshop?

- Field Testing workshop poorly attended in Fall (n=13)
 - Discussions around discontinuing
- Of note......
 - ▲ Location of next workshop may change due to increasing cost at venue coupled with lower attendance



Manual 20 Info

Contact Information for TMC Manuals 20 & 21 and other rating scales and aids :

Yvonnie Reese

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Attachment #5 Surveillance Panel Chair Handbook Draft June 17, 2024

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Standard Guide for

Title D02.B0 Surveillance Panel Chairs' Handbook¹

This standard is issued under the fixed designation X XXXX; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

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1. Scope

1.1 This handbook covers the information and responsibilities necessary for the effective management of surveillance panels under ASTM Subcommittee B.¹ While this handbook was developed primarily to aid surveillance panel chairs with the execution of their duties, it can also serve as a resource for any panel member or stakeholder. A task force under ASTM D02.B0.08 Executive Committee, Technical Guidance Committee Subcommittee was responsible for the creation of this document. The Technical Guidance Committee Subcommittee is responsible for ongoing document maintenance.

1.2 This handbook is arranged as follows:

Subject	Section
Scope	1
Referenced Documents	2
Terminology	3
Significance and Use	4
History and Organization	5
Panel Housekeeping	6

¹ This handbook is under the jurisdiction of ASTM Committee D02 on Petroleum Products, Liquid Fuels, and Lubricants and is the direct responsibility of Subcommittee D02.B0.08 on Executive Committee, Technical Guidance Committee Subcommittee.

Current edition approved XXX XX, XXXX. Published XXX XXXX.



Running Meetings	7
Information Letter Process	8
Semi-Annual Reports	9
Statistics	10
Developing New Procedures	11
Chair Change Management	12
Legal Information	13

2. Referenced Documents

- 22 D4485 Specification for Performance of Active API Service Category Engine Oils
- D4684 Test Method for Determination of Yield Stress and Apparent Viscosity of Engine Oils
- 24 and Low Temperature
- 25 D6299 Practice for Applying Statistical Quality Assurance and Control Charting Techniques
- 26 to Evaluate Analytical Measurement System Performance
- 27 D6300 Practice for Determination of Precision and Bias Data for Use in Test Methods for
- Petroleum Products, Liquid Fuels, and Lubricants
- D8111 Test Method for Evaluation of Automotive Engine Oils in the Sequence IIIH, Spark-
- 30 Ignition Engine
- 31 E178 Practice for Dealing with Outlying Observations
- 32 2.2 API Standards:
- 33 API 1509 Engine Oil Licensing and Certification System

34 **3. Terminology**

35 3.1 *Definitions:*



- 3.1.1 *American Chemistry Council (ACC)*, *n*—an industry trade association for American chemical companies used to promote the interests of corporations of the chemical industry.
- 3.1.2 *American Petroleum Institute (API)*, *n*—API has led the development of petroleum, natural gas and petrochemical equipment and operating standards. These represent the industry's collective wisdom on everything from drill bits to environmental protection and embrace proven, sound engineering and operating practices and safe, interchangeable equipment and materials.
- 3.1.3 *Automotive Oil Advisory Panel (AOAP), n*—this panel is a part of API and consists of two groups: the "automotive" group consisting of OEMs and the "oil" group which includes lubricant manufacturers/marketers and additive manufacturers. This panel develops the specifications against which engine oil marketers are licensed to use the API certification marks. The AOAP guides and facilitates the development and introduction of AOAP performance specifications for passenger car engine oils.
- 48 3.1.4 American Society of Testing and Materials (ASTM)

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- 3.1.5 Base Oil Interchangeability Viscosity Grade Read Across (BOI/VGRA), n—guidelines and system that allows for reducing test costs by allowing the interchangeability of certain base oils and different viscosity grades without completing a full engine and bench test program for each change. These guidelines are described in API 1509 Annexes.
- 3.1.6 *Category Life Oversight Group (CLOG)*, *n*—group that reviews existing data comparing relevant engine tests and determines steps needed to maintain or replace a test during the life of the engine oil specification category.
- 3.1.7 *Central Parts Distributor (CPD), n*—Part supplier for Engine Tests.



- 3.1.8 Coordinating European Council (CEC), n—a European organization that represents the
- motor, oil, petroleum additive and allied industries in the development of test methods to evaluate
- 59 the performance of transportation fuels, lubricants, and other fluids.
- 3.1.9 Dependent Laboratory, n-a laboratory that is associated with an additive manufacturer,
- oil marketer, or OEM.
- 3.1.10 Diesel Engine Oil Advisory Panel (DEOAP), n—a formal committee under API that is
- comprised of representatives from API and EMA member companies who deal with heavy-duty
- lubricant matters affecting the two trade associations. The DEOAP guides and facilitates the
- 65 introduction of proposed heavy-duty performance categories.
- 3.1.11 Truck and Engine Manufacturers Association (EMA), n—a trade association that
- 67 represents worldwide manufacturers of internal combustion engines and on-highway, medium, and
- 68 heavy-duty vehicles.
- 3.1.12 European Automobile Manufacturers Association (ACEA), n—the main lobbying and
- standards group of the automobile industry in the European Union.
- 3.1.13 *Heavy Duty (HD)*, *n*-term for engine oils developed for heavy duty vehicles commonly
- 72 powered with a diesel engine.
- 3.1.14 Heavy Duty Engine Oil Class Panel (HDEOCP), n—liaisons with API, ACC, EMA,
- 74 DEOAP/NCDT/NCET and coordinates category development with critical industry stakeholders.
- 75 Classification panels are responsible for maintaining existing API performance categories, the tests
- visual representations used in the performance specifications, and for developing new ones as needed.
- 3.1.15 Independent Laboratory, n—a laboratory that is not associated with an additive
- manufacturer, oil marketer, or OEM.



- 3.1.16 International Lubricants Specification Advisory Committee (ILSAC), n—an organization through which global passenger car OEMs develop minimum performance standards
- for passenger car engine oils used in gasoline fueled engines.
- 3.1.17 *Japanese Automotive Standards Organization (JASO), n*—an organization that sets automotive standards in Japan, similar to SAE in the United States.
- 84 3.1.18 Lubricant Test Monitoring System (LTMS), n-a statistical system used to administrate reference oil testing with the main purpose being to monitor test stand performance. The LTMS 85 document is available the Test Monitoring website 86 at Center (TMC) (https://www.astmtmc.org/ftp/docs/ltms/). The document details per-test statistical methods used 87 to determine reference test performance and potential subsequent adjustments to candidate tests. 88
- 3.1.19 *Lubricants Group*, *n*—a group within API that approves passenger car and heavy duty engine oil specifications.
- 3.1.20 *New Category Development Team (NCDT)*, *n*—a team under API that is formed during
 Phase II of category development by API DEOAP. They are responsible for coordinating the new
 category working toward final approval within the timetable and budget.
- 3.1.21 *New Category Evaluation Team (NCET)*, *n*—a team under API that is formed during

 Phase I of category development by API DEOAP. They are responsible for recommending the

 need, language, timing, and funding mechanism for a new category to the API Lubricants Group.
- 3.1.22 *Original Equipment Manufacturer (OEM)*, *n*–primary company that manufactures engines, vehicles, or other major automotive components.
- 3.1.23 *Passenger Car Motor Oils (PCMO)*, *n*—term for engine oils developed for passenger cars, light-duty trucks, and similar vehicles primarily powered with gasoline fuel.



- 3.1.24 *Passenger Car Engine Oil Class Panel (PCEOCP)*—Liaisons with API, ACC, AOAP and ILSAC. The PCEOCP coordinates category development with critical industry stakeholders.

 Classification panels are responsible for maintaining existing API performance categories, the tests used in the performance specifications, and for developing new ones as needed.
 - 3.1.25 Petroleum Additives Panel (PAP or ACC PAP), n—The Petroleum Additives Panel was formed in 1990 to pursue the research and advocacy interests of developers, manufacturers and marketers of additives used to enhance the performance of automotive and industrial petroleum fuels and/or lubricants. The Petroleum Additives Panel accomplishes its objectives through the work performed by three Task Groups: the Fuel Additives Task Group (FATG), the Health, Environmental and Regulatory Task Group (HERTG) and the Product Approval Protocol Task Group (PAPTG).
- 3.1.26 *Product Approval Protocol Task Group (PAPTG), n*—part of ACC, this group focuses on research and advocacy efforts related to automotive lubricant additives.
 - 3.1.27 Society of Automotive Engineers (SAE), n—a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive and commercial-vehicle industries. Their core competencies are life-long learning and voluntary consensus standards development.
 - 3.1.28 *Test Monitoring Center (TMC)*, *n*—offers reference oil distribution and data handling services to laboratories involved in lubricant testing. The TMC provides a reference-oil-based system for the calibration of ASTM Test Methods. Other services include laboratory inspections, rater calibration workshops and industry related registration services.

4. Significance and Use



- 4.1 *Handbook*—This handbook is meant to act as a resource primarily for surveillance panel chairs to facilitate the effective management of panels. The information and guidelines contained herein were developed via input from industry members and stakeholders and represents many collective years of experience. There are also references to external resources to provide additional information as well as to reference other guidelines or regulations that may be important to consider as a panel chair and member.
- 4.2 *Use*—This handbook is useful for the effective management of surveillance panels.

 Unless otherwise stated, the guidelines contained within are exactly that; guidelines and not strict regulations. However, these guidelines were developed through the collective experience and wisdom of numerous industry members and stakeholders. The surveillance panel chair would be wise to seriously consider them when leading their panel.

5. History and Organization

5.1 *History of Engine Oil Standards and Surveillance Panels* – Since the dawn of motorized transportation, there has been a need for specialized lubricants. For automotive applications, these specialized lubricants include engine oils, transmission fluids, gear oils and hydraulic fluids. In North America, several groups were established for, or became involved in, the development and governing of these specialized automotive lubricants.

ASTM was established in 1898. SAE was established in 1905. API, The American Petroleum Institute, was established in 1919. These three groups have all been intimately involved with the automotive lubricants industry since the early 1900s.



Focusing on engine oils, there is over 100 years of history on the development and classification 145 of engine oils, and over 50 years of licensing and certification of engine oils. In 1923 SAE first 146 defined engine oils by thickness (viscosity). At this time no additives were used. In 1929 147 Standard Oil was the first to develop synthetic hydrocarbons. Then in the 1930s we saw the first 148 use of additives in engine oils. 149 In 1947 API defined three categories of engine oils; Regular, which was straight mineral oil, 150 Premium, which was mineral oil with oxidation inhibitors and Heavy Duty, which was mineral 151 oil with oxidation inhibitors and detergents/dispersants. Not long after, API created its first 152 separate categories for gasoline and diesel engine oils. Starting in 1952 and progressing to 1970, 153 there were a total of three API categories, ML, MM and MS for gasoline engine oils and three 154 API categories, DG, DM and DS for diesel engine oils. This is when API added Sequence 155 Testing to their requirements. In the 1950s we also saw the first use of multi-grade engine oils. 156 Then in 1970 API, ASTM and SAE worked together to develop an engine oil classification 157 158 system for gasoline and diesel engine oils. S Category for service gasoline engine oils and C Category for commercial diesel engine oils. This classification system is still in use today. 159 In the 1950s, the North American automobile manufacturers developed the first Sequence engine 160 tests. GM developed the Sequence I, II and III, Chrysler developed the Sequence IV and Ford 161 developed the Sequence V. Around the same time, the North American diesel engine 162 manufacturers developed the first standardized HD engine tests. The initial Sequence and HD 163 engine tests were incorporated into the API ML, MM, MS, DG, DM and DS categories. Over 164 the past 8 decades these engine tests have been updated and used in the numerous API C, F and S 165 engine oil categories, as well as in ILSAC, ACEA and JASO engine oil categories. 166



Along with the development of standardized testing for automotive lubricants, came the need to 167 monitor and update these tests. Under the wing of ASTM, surveillance panels were formed for 168 this task. To this day, the surveillance panels are not ASTM sanctioned bodies, but follow many 169 of the ASTM practices and principles. 170 In the early years, the surveillance panels were chaired by the test sponsor. This included 171 General Motors, Ford, Caterpillar, Mack and others. This was the norm until the mid-1970s. In 172 the mid-1970s non-test sponsor chairs started to appear. Also, until the early 1980s the 173 surveillance panels did not have access to or monitor reference test data. This was due to many 174 of the test sponsors not wanting to make reference data public. At that time in our industry, only 175 the test sponsor had access to industry reference data for their test type(s). Without access to 176 reference data, the surveillance panel did not monitor test severity or precision. 177 So, in the early years, the surveillance panels primarily monitored and updated test hardware, test 178 fuel and test operations. It was the surveillance panels that established batch control for test 179 180 samples, critical hardware and test fuel. In 1976 the Test Monitoring Center (TMC) was established as an unbiased group within ASTM 181 D02.B. The primary purpose of the TMC is to monitor the calibration of engine test stands 182 through the use of ASTM reference oils. The reference oils are assigned to the test laboratory in 183 a blind fashion and the test results reported back to the TMC to be used to track the precision and 184 bias of the test methods. The TMC also has the responsibility of auditing the test laboratories to 185 ensure that they are conducting the tests as defined by the ASTM procedure. Procuring, storing 186 and distribution of reference oils is also handled by the TMC. With the TMC now as the keeper 187 188 of the test data, surveillance panels were granted access to the data and they started to monitor test severity and precision. 189



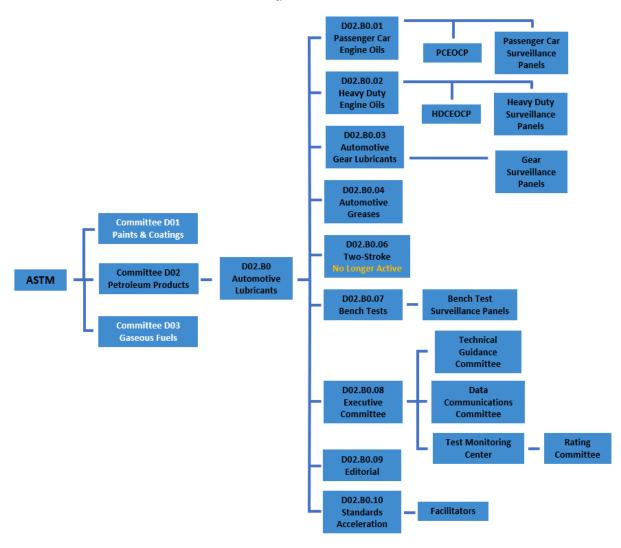
In the early 1990s the LTMS was established and introduced. Surveillance panels were 190 immediately involved with the LTMS. This system introduced robust reference data monitoring, 191 severity, precision and CUSUM charting, the severity adjustment system, the information letter 192 system and more. From the 1990s through today the surveillance panels are responsible for 193 monitoring the LTMS and taking action when needed. 194 In the past 100+ years we have seen the birth and the evolution of the automotive industry and 195 the lubricants industry. Part of this evolution has been the introduction and evolution of 196 standardized testing and the surveillance panels which are responsible for the monitoring and 197 updating of these standardized tests. The surveillance panel has evolved too, from initially being 198 controlled primarily by the test sponsor, with limited responsibilities centered around hardware, 199 fuel and operation to becoming open industry panels, controlled by all industry participants, and 200 responsible for the surveillance and continued improvement of all aspects of the standardized 201 tests that they are responsible for. 202 203

5.2 ASTM Committee Hierarchy within D02.B0 Automotive Lubricants:

(https://www.astmtmc.org/ftp/docs/ASTMOrganizationChart.pdf)

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- 5.3 *Subcommittee B*—Promotes the knowledge, specifications, methods of test, and nomenclature for automotive lubricating oils. This will include those lubricants used in the power train and chassis components of self-propelled wheeled vehicles including passenger cars, trucks, buses, high-speed diesels, and tractors.
- 5.4 Sections—D02.B01, D02.B02, D02.B03, D02.B04, D02.B06, D02.B07, D02.B08,
- 211 D02.B09, D02.B10:



5.4.1 Some of these sections receive reports from panels under their oversight and are 212 responsible for the promotion of knowledge of, and specifications, test methods, and terminology 213 for automotive lubricants and fluids. Some committees provide updates to Subcommittee B. 214 5.5 Typical Objectives: 215 5.5.1 Keep existing performance tests operational, at historic severity and precision levels. 216 5.5.2 Ensure that performance test parts and reference oils are available in adequate supply 217 and of a consistent quality. 218 5.5.3 Develop and maintain performance tests for lubricant categories. 219 5.5.4 Maintain surveillance of test procedures under section jurisdiction. 220 5.5.5 Work to improve test precision and correlation with field service. 221 5.5.6 Maintain active liaison with related organizations (CEC, SAE, API, etc.). 222 5.6 Class Panels B01,B02—PCEOCP and HDEOCP (Passenger Car and Heavy Duty Engine 223 Oil Class Panels): 224 5.6.1 Each panel is responsible for maintaining existing API 1509 Passenger Car 225 Engine/Heavy Duty Oil Performance categories and for developing new ones as needed. 226 Definition and documentation of performance limits for these categories, in ASTM D4485 is also 227 the responsibility of the panels. Consistent with proper maintenance of categories the panels 228 interprets Surveillance Panel recommendations regarding severity shifts, procedure changes, test 229 usefulness, precision issues, test availability, and any other matters having a bearing on 230 performance limits and specifications. 231 5.6.2 For definition of new engine oil performance specifications, the panels approve the 232 suitability of tests for inclusion and the designs of test matrices intended to establish precision 233



and other measures of test usefulness. To facilitate accomplishment of this responsibility, class 234 panel may form special task forces to develop and interpret data from new tests, recommend test 235 matrix designs, appoint matrix managers, and recommend limits as appropriate. The panels 236 recommend appropriate action regarding revisions to D4485 through Subcommittee B for 237 balloting, and are governed by a set of operating guidelines established by PCEOCP and 238 HDEOCP members. 239 5.6.3 PCEOCP liaisons with API, ACC, ILSAC, AOAP: These bodies make the final 240 decisions on the specifications for Passenger Car engine oil. In addition, the PCEOCP and the 241 HDEOCP must work together to share resources and in some cases share tests between 242 categories. 243 5.6.4 HDEOCP liaisons with API, ACC, EMA, DEOAP/NCDT/NCET to coordinate 244 category development with critical industry stakeholders. 245 5.7 D02.B03 – Automotive Gear Lubricants 246 5.7.1 This Section is responsible for the promotion of knowledge of, specifications, and test 247 methods and terminology for automotive gear lubricants and fluids. This includes gear 248 249 lubricants used in rear drive axles and power dividers. Also included are fluids used in manual and automatic transmissions of wheeled or track laying vehicles such as passenger cars, 250 recreation vehicles, taxicabs, trailers, trucks, buses, tractors, and construction and farm vehicles. 251 5.8 D02.B04 – Automotive Greases 252 5.8.1 This section is responsible for the promotion of knowledge of, specifications, test 253 methodologies, and terminology for automotive lubricating greases. This includes but is not 254 limited to greases used in wheel bearings, universal and constant velocity joints, chassis, and 255 suspension components. 256



- 257 5.9 D02.B06 Two-Stroke Cycle
- 5.9.1 Currently not active

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- 259 5.10 D02.B07 Bench Tests:
 - 5.10.1 Section D02.B.07 consists of the numerous bench test surveillance panels, enabling a single forum for discussion on various topics and issues related to the monitored bench tests used in the ILSAC and API passenger car and heavy duty categories. Each surveillance panel will review performance of existing tests, maintain appropriate reference oil volumes with the support of the ASTM Test Monitoring Center (TMC), and make recommendations for appropriate action. Discussion on monitoring additional test methods or development of new monitored bench test methods are in scope for this section. The bench tests within this section include but are not limited to TEOST, MTEOS, elastomer compatibility, corrosion, filterability, volatility, high temperature foam, sulfated ash, ball rust, oxidation, homogeneity and miscibility, emulsion, and fuel dilution tests with the most current list of tests on the ASTM TMC website

 [SemiReports (astmtmc.org)]. Write out the full link***
- 5.11 B08—ASTM Test Monitoring System Executive Committee:
- 5.11.1 The committee has the responsibility for setting the technical direction policies,
 procedures, and for providing guidance for carrying out the purpose of the Test Monitoring
 System and all of its regulations. The committee has oversight of a surveillance panel's
 developed system that uses reference material tests to calibrate test stands and testing
 laboratories.
- 5.11.2 The committee also provides guidance on the annual budget and general operations of the ASTM Test Monitoring Center as well as the hiring of staff.



5.11.3 *Test Monitoring Center (TMC):* 279 5.11.3.1 Operates an independent calibration system to ensure that all tests performed using 280 test procedures published by ASTM and/or monitored by the Center are conducted in a valid 281 manner so that they can be interpreted properly. Additional services provided by the TMC 282 include reference material distribution and test registration. 283 5.11.4 *Technical Guidance Committee (TGC)*: 284 5.11.4.1 The Technical Guidance Committee shall consist of the chair of the surveillance 285 panels of monitored tests, a representative of each of the test developers/sponsor who are 286 responsible for the test procedures and the Director. The Technical Guidance Committee will 287 advise the Director in technical matters concerning test procedures. This will involve working 288 289 with the surveillance panels, test developers, critical parts suppliers, fuel suppliers, and testing laboratories across all testing types to improve the repeatability and reproducibility of the test 290 procedures. The TGC will provide guidance for future test developments. 291 5.11.4.2 The TGC chair will liaise with the ACC PAPTG Chair. 292 5.11.4.3 Data Communication Committee (DCC): 293 5.11.4.3.1 The purpose of the Data Communication Committee is to provide a forum for 294 discussion and development of technical solutions for standardizing industry wide data 295 communications systems and other computer applications relating to these systems. 296 5.11.4.4 Subcommittee B Data Analyst List—See DataAnalystList.pdf (astmtmc.org) and 297 Group Email Link. 298

5.11.5 Test Availability Guidelines:



5.11.5.1 The ASTM Technical Guidance Committee has approved the following guidelines to assist surveillance panels when notifying that a specific test may be available or unavailable for testing purposes. The intent is that all stake holders are informed in a timely manner of any possible continuation/disruption in test availability.

5.11.5.2 Guidelines:

5.11.5.2.1 Each surveillance panel is responsible for ensuring adequate supplies of acceptable test components, fuel, or any other item necessary to conduct a test. If a condition arises that would prevent a laboratory from procuring materials to conduct a registered or reference oil test, the surveillance panel chairman should be notified immediately. The surveillance panel is to then meet and discuss possible redistribution of the resource, alternative suppliers, etc. to help resolve the procurement issue. If no resolution is found, the surveillance panel chairman is to inform at a minimum the stake holders shown below under the heading notification list. It is hoped in situations when a test is facing a shortage of material(s) that immediate notification can focus industry expertise on finding suitable replacements and or develop/initiate protocol to handle approval of oils. In the case of sole-source/critical parts, it is advisable that the surveillance panels establish an equivalency testing protocol in anticipation of the event that material can no longer be procured. If material procurement conditions change enabling a registered or reference oil test to be run, the surveillance panel chair is to also immediately notify stakeholders. ***Add template or link to template for letter from Chair to Panel***

5.11.5.2.2 For ASTM Test Monitoring System purposes, a test is deemed available as long as one calibrated independent laboratory is able to run tests.

5.11.5.2.3 *Notification List*:



Organization	Position
ASTM	D02.B0 Chair
	Test Monitoring System Executive Committee Chair
	Test Monitoring Center Director
	PCEOCP Chair
	HDEOCP Chair
	D02.B0.01 Chair
	D02.B0.02 Chair
	D02.B0.03 Chair
	D02.B0.07 Chair
	Membership of Effected Surveillance Panel
ACC	Product Approval Protocol Task Group Manager
	MAAG Chair
API	EOLCS Manager
	EOLCS Chair
Auto Alliance	
JAMA	
EMA	EMA Staff
API	AOAP Chair
API	DEOAP Chair



		ACC-MA	Manager
322		5.11.5.2.4 Notification:	
323		5.11.5.2.5 From the TM	C website (https://www.astmtmc.org/TestStatusNotification.aspx) a
324	noti	fication email can be gen	nerated with the current notification member emails. Surveillance
325	Pan	el Chairs will need to ap	pend a letter describing the situation using the current D02 letterhead
326	(a li	nk is on the TMC notific	cation page) and a notification comment to the body of the email
327	prio	or to sending.	
328		5.12 <i>B09—Editorial</i> :	
329		5.12.1 The section's prin	mary responsibility is to resolve any Form and Style/editorial matters
330	that	exist or arise in Subcom	nmittee D02.B0's standards and update the D4485 Specification as
331	nece	essary.	
332		5.12.2 Specific tasks ma	y include the following:
333		5.12.2.1 Correct Form a	nd Style/editorial errors;
334		5.12.2.2 Ensure that SI u	units are appropriately used.
335		5.13 B10—Standards Ac	cceleration:
336		5.13.1 The section on St	andards Acceleration maintains a staff of facilitators to expedite the
337	esta	blishment of standards r	elating to automotive lubricants. Facilitators' activities include
338	upg	rading test procedures to	ASTM test methods, and revising standards as needed once they are
339	ado	pted; the Form and Style	for ASTM Standards to be followed in all cases.
340		5.14 Surveillance Panel	s:
341		5.14.1 Some examples o	f surveillance panels include: Sequence III, Sequence IV, Caterpillar,
342	Cun	nmins, ROBO, TEOST, I	L-42, L-60, etc.



5.14.2 The XXX Surveillance Panel is responsible for the surveillance and continued 343 improvement of the XXX test documented in ASTM Standard DXXXX as updated by the 344 Information Letter System. 345 5.14.3 Improvements in rating technique, test operation, test monitoring, and test validation 346 will be accomplished through continual communication with the Test Sponsor, ASTM Test 347 Monitoring Center, ASTM B0.0X, Passenger Car or Heavy Duty (whichever is appropriate) 348 Engine Oil Classification Panel, ASTM Rating Task Force, ASTM Committee B0.0X, ACC 349 Monitoring Agency. Actions to improve the process will be recommended when deemed 350 appropriate based on input from the preceding. Industry transition to new engine hardware 351 batches will be monitored and redistribution of existing hardware facilitated to accomplish 352 uniform industry implementation. 353 5.14.4 Development and correlation of updated test procedures with previous test procedures 354 will be reviewed by the panel. This process will provide the best possible test procedure for 355 356 evaluating automotive lubricant performance. 5.14.5 Operations and Hardware (O & H) Panel—An O&H (Operations and Hardware) 357 Chair and task force may be appointed for each panel to monitor the supply and integrity of the 358 test hardware and monitor any operational issues with the test stands. It is recommended that the 359 candidate for O&H Chair be a test engineer for that particular test type. The O&H Chair is 360 responsible for a report to the surveillance panel at all panel meetings. The O&H task group is 361 composed of members of each test lab conducting the test, the test sponsor and a TMC 362 representative. This working group conducts meetings as required to address any matters 363 364 needing attention in hardware and operations. Data studies, workshops and round robins are the

fundamental tools that this group uses to find root causes and solutions to operational problems.



The task force works closely with the test sponsor to anticipate hardware shortages or parts changes to the test hardware.

6. Panel Housekeeping

- 6.1 Maintaining a Current Active Membership List:
- 6.1.1 A list of Surveillance Panel chairs is posted to the Test Monitoring (TMC) website (www.astmtmc.org/SurveillancePanelList.aspx). Surveillance Panel chairs shall maintain a contact list of panel members, industry affiliation, and contact information. It is recommended that the roster be reviewed and updated annually. This contact information shall be included in meeting minutes, unless otherwise specified by a given participant. The meeting minutes will be uploaded by TMC contact to the website (www.astmtmc.org/Minutes.aspx). When transitioning responsibilities from one chair to the next, it is critical that this distribution list be transferred for maintenance and communication of events.
- 6.1.2 Some panels require a list of voting and non-voting members to ensure all parties of interest are represented. The panel chair shall monitor affiliation representatives voting status, alongside TMC verification of no duplicate votes or conflicts of interest occur.
 - 6.2 Communication with Industry Stakeholders:
- 6.2.1 Industry stakeholders include, but are not limited to, participating organizations/laboratories, suppliers of reference fluids, fuels, engine parts, statisticians, and distributors of these materials.
- 6.2.2 TMC contacts will maintain inventory status of each consumable required for stand/rig
 calibration and discloses this information biannually in the Executive Summary report



(www.astmtmc.org/SemiReports.aspx). It is recommended, however, that consumables at a critical inventory level shall be monitored throughout report periods. Chairs shall remain up to date regarding inventory levels through the TMC contact and the suppliers of the materials if outside of the TMC organization. A list of contact points for suppliers shall be provided with any chair transitions. It is recommended that an itemized list with supplier details and any other pertinent information are publicly stored using the ASTM Collaboration Area for panel chairs ***Reference TMC location instead (TBD)

- 6.2.3 Chairs shall also include updates in semi-annual reports regarding any industry or test changes pertaining to the test methods under the panel's jurisdiction. This should also include any discussions held at D02 semi-annual, TGC, or interim meetings. All interested stakeholders shall have knowledge of discussions brought forth to the panel. It is strongly recommended that semi-annual reports be reviewed at the panel level prior to ASTM and/or TGC meetings.
- 6.3 Responding to ASTM Ballots

- 6.3.1 It is required that the Surveillance Panel Chair be an ASTM member. This allows the Chair to respond to ballots and view comments associated with those ballots. A Chair must respond to all ballots, even those not directly associated with their panel's activity. Accessing ballots and comments can be accomplished through the ASTM site under the MyCommittees section of the Chair's individual account. The Chair should receive an e-mail alerting them to new ballots or comments that have been issued (https://compass.astm.org/).
 - 6.4 Liaison with Other Chairs:
- 6.4.1 The Surveillance Panel Chairs have created a collaboration area to retain and share critical documents. This section may be used as a repository for notes specific to administrative items for panel activities. As designated in the link above, a list of panel chairs is available on



TMC's website. The TMC Committee B0 engineers list can be found at 411 (https://www.astmtmc.org/pdfforms/Contacts.pdf). TMC contacts shall ensure that new panel 412 chairs receive access to all information required to continue the activities of the last chairperson. 413 6.5 Liaison with TMC, TGC, OEM, and CPD: 414 6.5.1 All surveillance panel chairs are members of Technical Guidance Committee (TGC). 415 Active participation in the TGC meetings and activities is strongly encouraged, regardless of 416 involvement with engine testing. As designated in the link above, TMC contacts will ensure that 417 new panel chairs are included in the distribution lists for TGC activities 418 (www.astmtmc.org/TechnicalGuidanceCommittee.aspx). Project status regarding TGC activities 419 can be found on TMC's website (DataAnalysisProjects.xlsx (live.com)). 420 421 6.5.2 Panel chairs are to be up to date regarding OEM and CPD supply statuses. TMC's website has a list of suppliers and contacts for hardware. 422 6.6 Responding to Test Procedure Questions: 423 6.6.1 Surveillance Panels for both engine testing and bench testing are monitored and 424 managed by TMC yet are under the ASTM D02.B0 designation. In addition to maintaining 425 contact with the TMC engineers, the panel chair is responsible for maintaining a current 426 knowledge of industry activities regarding tests under their panel jurisdiction. 427 6.6.2 Regarding TMC calibration questions, chairs can consult the LTMS guidelines 428 (www.astmtmc.org/ftp/docs/ltms). TMC has provided a best practices library of documents 429 (www.astmtmc.org/ftp/docs/technicalguidancecommittee/minutes/BestPractices/). 430 6.6.3 Regarding test standards questions, chairs can consult the ASTM subcommittee or 431 section chairs (www.astm.org/get-involved/technical-committees/committee-d02/officers-d02). 432



To access meeting minutes and documents for a given test method, the subcommittees and 433 standards designations can be found on ASTM's website (www.astm.org/get-involved/technical-434 committees/committee-d02/subcommittee-d02). The TMC website also has a list of the 435 designated standards for the methods under its jurisdiction 436 (www.astmtmc.org/ftp/docs/ASTM Test Methods Designations.pdf). The regulations 437 governing ASTM technical committees, version April 2015, is posted on TMC's website 438 (www.astmtmc.org/ftp/docs/astminternational/ASTMTechnicalCommitteeRegulations.pdf). 439 This document is intended to provide the base requirements of standards management, including 440 form and style notes, frequency of review, definitions, and balloting processes. It is 441 recommended that panel chairs be up to date on guideline requirements and standards activities 442 prior to the June and December meetings. 443 6.6.4 Another critical item to be maintained on a panel-by-panel basis is the inclusion or 444 reference to TMC calibration requirements in the ASTM standards. For example, when bench 445 test results are to be submitted for the intention of licensing a product, the requirements must be 446 included or referenced in the ASTM standard. ASTM D5800 is an example of this type of 447 reference and requirement explanation. 448 6.7 Review of the Method: 449 6.7.1 ASTM requires the review of each method every 5 years to ensure the method is still 450 relevant and accurate. Each ASTM method is under the jurisdiction of a specific ASTM 451 committee and it is the responsibility of that subcommittee to review the method and make 452 suggested changes or reapproval with no changes. If an ASTM standard exists outside 453 Subcommittee B jurisdiction, the other subcommittee is responsible for the method review. If an 454 ASTM standard exists within Subcommittee B jurisdiction, the surveillance panel chair or 455



designate is responsible for completing the method review in a timely 456 manner. Recommendations could include revisions which are needed or accepting a reapproval 457 with no changes. Revisions or reapprovals are communicated to the Section Chair and 458 Subcommittee chair to request approval to ballot before a ballot is submitted to ASTM. ASTM 459 provides training for issuing a ballot and handling negative votes through their member training 460 (Classroom for Members - Training Courses - Products & Services (astm.org)). If no action is 461 taken on a method after 8 years, ASTM will withdraw the method due to inactivity. If there is 462 activity, the method will not be withdrawn. 463 464

6.8 Stewarding New or Re-blended Reference Oils:

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- 6.8.1 There are various scenarios in which a new or re-blended reference oil may be required for a given test. Among these scenarios are critically-low inventories, increased consumption of a given material, antiquated or non-representative technology, hardware modifications, test modifications, etc. The process of onboarding a new or re-blended calibration or reference fluid requires the advisement of a trained statistician (www.astmtmc.org/ftp/docs/DataAnalystList.pdf).
- 6.8.2 The basic guidelines are detailed in the appendices of the LTMS guidelines (www.astmtmc.org/ftp/docs/ltms/ltms.pdf). Appendix F contains an adaptation of the process for section B03 as a general guideline for B0. Because each panel may have unique requirements for a calibration or reference fluid, there is no single prescribed process to implement new or re-blended fluids to cover all tests. It is recommended that a checklist for each panel be established and that all files regarding new or re-blended fluids be submitted to a repository (such as the ASTM collaboration area) for transfer of knowledge and processes followed. A panel-by-panel process may be delineated by chairpersons. An example of the re-



- blend process for the Noack D5800 test under the Volatility Surveillance Panel is stored in the collaboration area.
- 6.8.3 When new or re-blended fluids are implemented, bulletin/memo
- (www.astmtmc.org/Memo.aspx) is generated, and a TMC information letter
- (www.astmtmc.org/informationLetters.aspx) may be issued, if a technical revision is required.
- An index of all reference oils are located on TMC's website
- (www.astmtmc.org/ftp/docs/ASTM_Reference_Oils.pdf).
- 486 6.9 Review and Update Scope and Objectives:
 - 6.9.1 It is not required that all panels have a scope and/or objective statement. However, it is encouraged so that all panel members understand the acceptable topics of discussion and relevance of voicing their opinions during panel meetings. Examples of a scope and objective statements are posted in the TMC surveillance panel handbook resources section (***link to follow once available***).

7. Running Meetings

7.1 *Meeting Frequency*—There is no defined meeting frequency that is applicable to all surveillance panels. Meetings should be held on an as-needed basis, decided by the Surveillance Panel Chair. Issues that have an immediate or significant impact should be dealt with in a timely manner. If a meeting is concluding with unresolved action items, a timely follow-up meeting should be scheduled to ensure all issues are resolved. If possible, coordinate scheduling the follow-up meeting at the end of the current meeting. A maximum meeting frequency of once per week has been found to be effective for significant topics. It is recommended that the Surveillance Panel Chair communicates the surveillance panel report prior to the Semi-Annual ASTM D.02 Committee Week, either via a surveillance panel meeting or email.



7.2 Running Meetings—It is the responsibility of the Surveillance Panel Chair to set up and run meetings. Meeting lengths of 1 to 1.5 hours have been found to be effective depending on the agenda. It is recommended that meetings include the following: an agenda, Minutes from the previous meeting, a review of the membership list, and attendance taken. An agenda should be created prior to a meeting based on the last meeting's action items as well as any new items that have arisen in the time between meetings. The agenda should be distributed prior to the meeting and should include any relevant supporting materials such as presentations. It has been found that the most effective meetings result from members coming prepared to discuss versus learning new information in the meeting and then attempting to make decisions.

7.2.1 A Secretary should be appointed for each panel with the responsibility of taking attendance and meeting Minutes. Attendance should be taken at the beginning of each meeting. Minutes should be taken, reviewed, and posted within 1-2 weeks of the meeting. The Minutes from the previous meeting should be approved at the beginning of the following meeting, via a Motion (typically moved by the Surveillance Panel Chair). If a secretary is not available, the Surveillance Panel Chair is responsible for taking the meeting minutes. However, it is highly recommended that a Secretary is appointed so the Surveillance Panel Chair can focus on running the meeting.

7.2.2 It is recommended that the ASTM Anti-Trust and Recording Policy be reviewed at the beginning of each meeting. It may be a desirable practice to review the Surveillance Panel membership list at the beginning of each meeting. If there are members of the Panel who have been inactive for a significant period of time, it is the responsibility of the Surveillance Panel Chair to contact that member and discern their continued interest to be included in the Panel. If



no response is given after multiple attempts, the Surveillance Panel Chair is free to remove that party from the Panel.

7.2.3 It is the responsibility of the Surveillance Panel Chair to keep the meeting on track and ensure agenda items are addressed. This can involve finding a balance between allowing enough discussion to adequately address topics versus allowing too much leeway for tangents and off-topic discussions. The discussion should always be technically focused. Market or business considerations are not within the purview of the panel and must be discussed in a different venue as dictated by the specific scenario.

7.2.4 At the end of a meeting, if applicable, state all the action items that resulted from that meeting, including responsible parties and follow-up expectations. The Robert's Rules Tool

7.3 Motions—A Motion is used to introduce an item to the panel or to propose a decision or action. A Motion can be made by any participant on the panel and must be seconded by another participant. After discussion, the group should move to vote on the Motion. Only one Motion should be made at a time. A resolution should be made on the outstanding Motion prior to moving to other topics. After a Motion has been made and seconded, there is a discussion period before voting on the motion. Ensure all viewpoints have the opportunity to be heard before moving to a vote. It has been found that there can be an inconsistent understanding of Motions amongst the Panel as discussions evolve. Therefore, it has been found to be beneficial to restate (or ask to be restated) a position on a motion to ensure there is clarity amongst the group. It can also be helpful to discuss the implications of a Motion's outcome to ensure there is no ambiguity regarding consequences amongst voting members. It is recommended to write out the Motion and let the participants view the written motion or ask the Secretary to state it verbally. This ensures that voting members know exactly for what they are voting.



7.3.1 E-mail ballots (E-ballots) have also been used for non-controversial Motions (i.e. editorial changes, etc.). The Surveillance Panel Chair emails the Motion to all Surveillance Panel members. The E-ballots typically include a two-week timeframe for vote submission and member comments. One method of conducting an E-ballot includes asking for any negative votes or waives by a specified deadline. If there are no negatives, the Motion is considered approved.

7.4 *Technology*—The virtual meeting space is at the discretion of the Surveillance Panel Chair. Generally, Surveillance Panel Chairs choose the platform their company commonly utilizes, provided that platform is easily accessed across the Panel. If there are any questions regarding conferencing technology, it can be helpful to schedule a "practice meeting" in advance to verify all participants can use the technology effectively.

7.5 Scheduling Meetings—There are a variety of online polling tools that help with scheduling. This could be ideal for panels that do not meet frequently. Industry experience exists regarding available scheduling tools. For panels meeting on a more regular basis, it is recommended to schedule the next meeting at the end of the current meeting. Additionally, finding a consistent day and time for meetings can help participants become accustomed to that cadence.

8. Information Letter Process

8.1 The Information Letter process is a special authorization given to ASTM D02.B0 to allow for critical method changes regarding parts, fuel supply, or reference oil that are needed to allow continued valid operation of the tests. These changes were allowed to keep the product qualification system running and not have long periods of unavailability of tests while waiting for balloting and publication of test revisions. Authorization was given by the ASTM



Committee on Standards (COS) (or Committee on Technical Committee Operations (COTCO)) 570 in XXXX memo dated YYYYDDMM. Information Letters are used by Surveillance Panels 571 under Subcommittee D02.B0 to make immediate changes to test methods and are subject to 572 Subcommittee D02.B0 and Committee D02 ballot. 573 8.2 Case A: Information letters are issued with an effective date when there is unanimous 574 consent at the panel level prior to balloting of the changes to the test method. 575 8.3 Case B: In situations where unanimous consent is not obtained, the information letter will 576 need to be balloted at Subcommittee D02.B0 and any negatives resolved before it can be issued. 577 578 8.4 Information letters are drafted and maintained by the Test Monitoring Center. Information letters will consist of a cover letter and an attachment which shows the 579 580 updated/revised text. The cover letter will normally include a brief description detailing the reason for the change(s), revised or updated sections and date when the information letter 581 becomes effective. The information letter is signed by the TMC Director; and the Test Sponsor, 582 Surveillance Panel Chair, or other panel approved representative. Information letters will carry a 583 numbering system consisting of the year issue and a consecutive number issued that year and the 584 test type. A sequence number, which is running count of information letters, is also provided in 585 the cover letter. 586 8.5 The revised text attachment will include a statement "Revises Test Method D XXXX-XX 587 as amended by Information letter XX-X", except where the information letter has been balloted 588 through subcommittee D02.B0. Revised Sections will have the section number highlighted in 589 bold, any deleted text highlighted in Blue and struck through. New text will be highlighted in red 590

and all formatting, numbering, etc. is to conform to ASTM Blue book standards.



- 8.6 The TMC Director forwards all issued information letters to ASTM for concurrent 592 balloting through subcommittee D02.B0 and Main Committee D02 Ballot. The Technical 593 Contact for any issues, such as negatives or comments, will be the Surveillance Panel Chair, or 594 in the case where the chair is not an ASTM member, then the contact will be the Subcommittee 595 D02.B0 Chair. 596 8.7 Negatives which occur at Subcommittee or Main Committee ballot are handled in the 597 following manner. The first step in addressing the negative is for the surveillance panel chair to 598 contact the negative voter and attempt to resolve the negative. The chair may solicit the help of 599
- the TMC, Test Sponsor, and surveillance panel to attempt to resolve the negative voter's 600 concerns. 601
- 8.8 Possible outcomes from Discussion with Negative Voter: 602

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- 8.8.1 Voter withdraws negative vote in writing. Action: Report to D02.B0 chair to close out 603 ballot and publication moves forward. 604
- 8.8.2 Voter Maintains their positions. Action: SP Chair reviews with the SP to determine if 605 the voter's position is agreeable to the panel. 606
- 8.8.2.1 If the panel supports the position of the voter, then the Information Letter (if already 607 effective) is rescinded and the ballot is closed failing to achieve consensus. 608
 - 8.8.2.2 If the panel does not support the position of the voter, then a clear statement of why the voter is non-persuasive or the issue raised is not-related should be drafted and submitted to the D02.B0 chair in support of a motion to be made at the next subcommittee meeting.
- 8.9 Depending on the outcome of item 8.8.2.1 or 8.8.2.2 above the subcommittee will handle 612 the negative according to ASTM regulations. Any actions taken as a result of the information 613



letter that was issued 'in good faith', that is issued with unanimous support of the surveillance panel will remain in place, but no further actions on the information letter changes will take place. The procedure changes will not be retroactively removed.

9. Semi-Annual Reports

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- 9.1 Semi-Annual reports are written and presented by Surveillance Panel Chairs at the ASTM D02 Committee Week in June and December. The information presented is largely based on the Surveillance Panel meetings from the previous semester and the Semi-Annual Reports that are made available by the TMC. The Semi-Annual Reports are put together in presentation form, typically with PowerPoint. The final information included in the Semi-Annual Reports is up to the discretion of the Surveillance Panel Chair. It is advised to seek input from the Class Panel or Section Chair for any specific requirements.
- 625 9.2 Required Information for Semi-Annual Reports:
- 9.2.1 Title slide with test name, date, location, and who prepared the presentation.
- 9.2.2 Information letters that went out since last ASTM D02
- 9.2.3 Any updates that have been made to the method and when it was published if applicable.
- 9.2.4 LTMS updates if any
- 9.2.5 Current maintenance of test
- 9.2.6 How many labs perform the test
- 9.2.7 How many calibrated stands
- 9.2.8 How many total calibration tests
- 9.2.9 Pass rate of calibration tests



9.2.10 Fail rate of calibration tests and reasoning 636 9.2.11 Industry statistics including bias and precision 637 638 9.2.12 Reference oil/fuel/hardware supply 9.2.12.1 Re-blends 639 9.2.13 CUSUM Severity Analysis (if applicable) 640 9.2.14 EWMA Severity Analysis (if applicable) 641 9.3 Optional Information for Semi-Annual Reports: 642 9.3.1 List members with respective companies including any changes made to membership. 643 9.3.2 Precision and bias graphs. 644 9.3.3 Comment on the frequency of meetings and how active the panel is. 645 9.3.4 Scope and objectives of the panel. 646 10. Statistics 647 10.1 Getting Statistical Support: 648 10.1.1 From initial test development through test maturation and monitoring, statistical tools 649 and considerations are present at each stage. It is important that industry stakeholders have a 650 good foundational knowledge of these statistical tools in order to optimize test method stability 651 and performance. The industry statisticians group at the time of development of this document 652 have determined that it is inappropriate to provide in-depth statistical recommendations here, as 653 many of the statistics topics cannot be placed into a "one-size-fits-all" solution or 654 recommendation. However, several resources exist to aid Surveillance Panels chairs and other 655 industry stakeholders, including: 656



10.1.1.1 Internal Company Statistician;

10.1.1.2 Sub B Data Analyst Group (Statisticians Group)—A list of statisticians who
volunteer their company time to support Subcommittee B statistical considerations is available
on the home page of the Test Monitoring Center (TMC) website (astmtmc.org). On the right-
hand side a link entitled "Data Analyst List" opens a pdf document with names, emails, phone
numbers, and company affiliation for statistics group members. For new requests, it is
recommended to use the group email link provided to contact the entire group. As this is a
volunteer group, a member with available time and resources will reply to your request.
10.1.1.2 Industry Statistical Training From time to time there may be a need to refresh the

- 10.1.1.3 *Industry Statistical Training*—From time-to-time there may be a need to refresh the entire industry or a subset of the industry (such as SP chairs and test sponsors only) on key statistics topics of interest at the time. A request for this training to occur can be routed to the statistics group or through the chair of the Technical Guidance Committee (TGC). Some examples of topics which can be covered in the training include:
- (1) Control charts and their proper creation, application and interpretation,
- (2) Guidelines for taking action resulting from control chart activity,
- 672 (3) Precision matrix design considerations,
- 673 (4) Guidelines for updating targets vs. correction factors,
- (5) Understanding severity adjustments,
- (6) Recommendations for introducing new hardware or critical test items such as fuel,
- 676 (7) Lessons Learned.



These presentations are stored under the meeting minutes section of the TGC (https://astmtmc.org/ftp/docs/technicalguidancecommittee/minutes/). An example of a presentation given in October of 2022 is also provided in this Surveillance Panel Handbook.

10.2 The LTMS Document:

10.2.1 The Lubricant Test Monitoring System (LTMS) is an industry reference testing system to monitor and control non-reference testing and provide best tools and actions to give accurate and equitable oil evaluation. It is a tool used to identify differences among industry test results and to assist the industry to level the playing field for non-reference testing. No matter where or when a non-reference is tested, the goal of LTMS is to bring all results to parity.

10.2.2 As test stands and test laboratories are calibrated by the ASTM TMC, the LTMS document defines the calibration in terms of test severity and precision and is checked by the application of control charts to reference test results. The LTMS document explains how to use the control charts for each test type. Add in Link to TMC site location***

10.3 Relevant ASTM Statistics Methods:

10.3.1 All ASTM methods are required to provide precision and bias statements according to ASTM Form and Style Guidelines (Form and Style Manual for ASTM Standards or "Blue Book"). Precision is commonly referred to as "repeatability" and "reproducibility". For the majority of tests in ASTM Committee D02, the precision statements are developed following practice ASTM D6300. However, since the minimum testing requirements of this practice are often too cost prohibitive to be feasible for tests falling under D02 Subcommittee B, Sub B tests do not typically use this practice, but instead follow the guidance of the industry statistics group and industry stakeholders who consider optimal precision matrix designs with the available



resources at the time. From the precision matrix data, the repeatability and reproducibility statements are generated.

10.3.2 For control charts, ASTM Committee D02 tests with high test volumes generally

follow practice ASTM D6299. Sub B tests do not typically use this practice, but instead use control charts outlined in the LTMS document (linked above).

10.3.3 For outlier testing of a data set, a popular method is ASTM E178. This practice has been used for Sub B test methods in certain situations, but Sub B statisticians often use other appropriate methods and reasoning based on sample size or other situational considerations.

11. Developing New Procedures

- 11.1 General Process:
- 11.1.1 Historically, standards have been created after completion of the Precision matrix. The
 draft of the procedure used to complete the matrix is used as the starting point for developing the
 test method. However, the decision to create the standard can be made at any time.
 - 11.1.2 Once it is decided to create a standard, the Surveillance Panel chair will contact

 Section D02.B0.09, to assign a facilitator for the purpose of writing the procedure in ASTM

 format and seeing it through the balloting process. The surveillance panel will be responsible for
 approval of the final draft of the standard and addressing any comments and or negatives that
 occur during the ballot process.
- 11.1.3 When directed by the panel, the panel chair will contact the Director, ASTM Test

 Monitoring Center who will contact D02.B0.09 to assign a facilitator for writing and balloting

 the standard.



- 11.1.4 Once the draft standard is approved by the appropriate subcommittee in D02.B0, the 721 facilitator and ASTM editor will send it to the full committee for approval. It is at this point a D-722 XXXX number will be assigned. 723 11.1.5 Where changes to the draft procedure are needed during the standard generation 724 process, the surveillance panel may issue information letters against the draft procedure. These 725 will be balloted through the appropriate D02.B0. subcommittee and any negatives at the B0 726 committee level will be addressed before the information letter can be issued. Once the standard 727 is approved, another information letter will be issued against the standard to incorporate these 728 changes. 729 11.2 Consideration for Sub-Tests in New Standards: 730 731 11.2.1 It is sometimes necessary for a new standard to utilize equipment or testing from an existing standard in order to accomplish the intended purpose of the new standard. One example 732 is Appendix X1 in ASTM D8111 (Sequence IIIHA), which incorporates ASTM D4684. 733 11.2.2 In such cases, it is recommended that, if suitable, existing standards be specified in the 734 new standard so that the precision of the existing standard can be utilized without need for 735 additional testing. Additionally, as the testing from an existing standard is typically for used oil 736 samples, it is recommended that D02.96 be contacted for support when incorporating sub-test 737
- 739 11.3 *Useful Links*:

standards.

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740 11.3.1 The below are some useful links to be aware of when developing a test:



741	11.3.1.1 ACC Code of Practice Resources— <u>https://www.americanchemistry.com/industry-</u>
742	groups/petroleum-additives/product-approval-protocol-task-group-paptg/code-of-practice-
743	<u>resources</u>
744	11.3.1.2 Engine Test Development Project Management Considerations—
745	https://www.americanchemistry.com/industry-groups/petroleum-additives/resources/engine-test
746	development-considerations
747	11.3.1.3 Engine Test Development Readiness Template—
748	https://www.americanchemistry.com/industry-groups/petroleum-additives/resources/engine-test
749	development-readiness-template
750	11.3.1.4 Guidelines for Creating an ASTM Standard:
751	(I)Form and Style Manual for ASTM Standards or "Blue Book"
752	(2) Draft standard templates— https://www.astm.org/get-involved/technical-
753	committees/lead-template.html
754	11.3.1.5 Guidelines for creating an ASTM research report— https://www.astm.org/get-
755	involved/technical-committees/interlaboratory-studies-program.html
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757	12. Chair Change Management
758	12.1 New Surveillance Panel Chairs will need to be selected to either replace outgoing
759	Chairs or serve a newly created panel. The following guidelines should be strongly considered
760	as part of the selection process.
761	12.2 A potential new Chair should have some knowledge of the test and be familiar enough
762	to speak to and advocate for the method. The candidate should also understand and accept all



responsibilities assigned to Chairs. No single company should hold a large majority of Chair positions. When selecting a new Chair, the current Chair may elect to ask the panel for nominations or directly solicit a potential new Chair. A final decision could be made by the Section Chair, by Surveillance Panel vote, or generally understood consensus amongst the panel. In the event a Panel Chair position is vacant, the Section Chair automatically becomes the acting Panel Chair and is responsible for finding a replacement. When finding a replacement for an engine test Surveillance Panel, the test sponsor's input and feedback should be sought before a final decision is made.

13. Legal Information

- 13.1 The ASTM Antitrust Policy can be found within the ASTM Regulations Governing
- ASTM Technical Committees document which is accessible online
- 775 (https://www.astm.org/media/pdf/regs_Regulations.pdf).



778 ANNEX

779 (Mandatory Information)

780 A1. LINKS TO EXTERNAL RESOURCES

781 **A1.1**

782 A1.1.1