

Technical Guidance Committee Report

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December 4, 2017

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TGC Meetings Conducted This Reporting Period

- The TGC conducted a meeting on June 28, 2017 during ASTM meeting week in Boston.
- A conference call/WebEx was conducted on August 30, 2017.
- Conference call with ACC (LCTWG) group and TGC chair on 10/24/17.

Accomplishments this Reporting Period

- After much debate and review the recommended wording for Alternate Supplier Protocol is getting close to the final form:
 - Draft wording was presented to the PCMO surveillance panels the week of November 13th
 - Will be presented to the HD surveillance panels in near future
 - All comments to be considered and final wording sent back to SP's for acceptance vote
 - After a successful vote, it will be requested that the wording be added to the individual test procedures

Draft of the wording that was generated during the August 30, 2017 Technical Guidance Committee Meeting Conference Call:

Alternate Supplier Protocol

ASTM International policy is to encourage the development of test procedures based on generic equipment. It is recognized that there are occasions where critical/sole-source equipment has been approved by the technical committee (surveillance panel/task force) and is required by the test procedure. The technical committee that oversees the test procedure is encouraged to clearly identify if the part is considered critical in the test procedure. If a part is deemed to be critical, ASTM encourages alternate suppliers to be given the opportunity for consideration of supplying the critical part/component providing they meet the approval process set forth by the technical committee.

An alternate supplier can start the process by initiating contact with the technical committee (current chairs shown on ASTM TMC website). The supplier should advise on the details of the part that is intended to be supplied. The technical committee will review the request and determine feasibility of an alternate supplier for the requested replacement critical part. In the event that a replacement critical part has been identified and proven equivalent the sole-source supplier footnote shall be removed from the test procedure.

Procurement Process for Testing Materials

- Good discussion between TGC chair and LCTWG group on the procurement process within ASTM.
- LCTWG encourages TGC to work towards creating guidelines for the TMC to follow for the multiple bidding process.
- LCTWG encourages the TGC to be involved with “coaching” the alternate supplier requests through the process.
- LCTWG has offered to help where needed.



Rater Task Force Update to TGC

12/4/2017

Passion for Solutions®

What we've been doing.....

 Conference call 7/11

 HD Workshop week of 10/2

 Post-Mortem Conference call 10/26

 Call to be scheduled Jan, 2018





Workshop update

- ▲ **New format for last two workshops – seems to work well**
- ▲ **Parts quantity at workshop may need adjustment**
- ▲ **Requirement for “experienced rater” will be further defined by TMC**
- ▲ **Some parts weren’t fully rated, so discussion on how to determine precision if this occurs again – TMC to propose**
- ▲ **Improve interactions between raters and coaches**
 - ▲ TMC to provide shirts to make coaches more recognizable
- ▲ **Rerate requirements/allowances during workshop need clarification**

CEC Manuals 20/21

- ▶ **Currently nobody owns them, so they are very outdated**
- ▶ **Suggest ASTM take the manual's over, get them updated, and manage like our test methods**
 - ▶ Who should own it?

Ongoing Actions

-  **Group has an open action item to upgrade the rating booth light requirement (currently outdated T12 fluorescents required)**
-  **Continue to review parts availability and workshop protocols to ensure the industry are properly served**
-  **Ensure more interaction between rating community and surveillance panels**
-  **Potentially Manual upgrade and ownership**

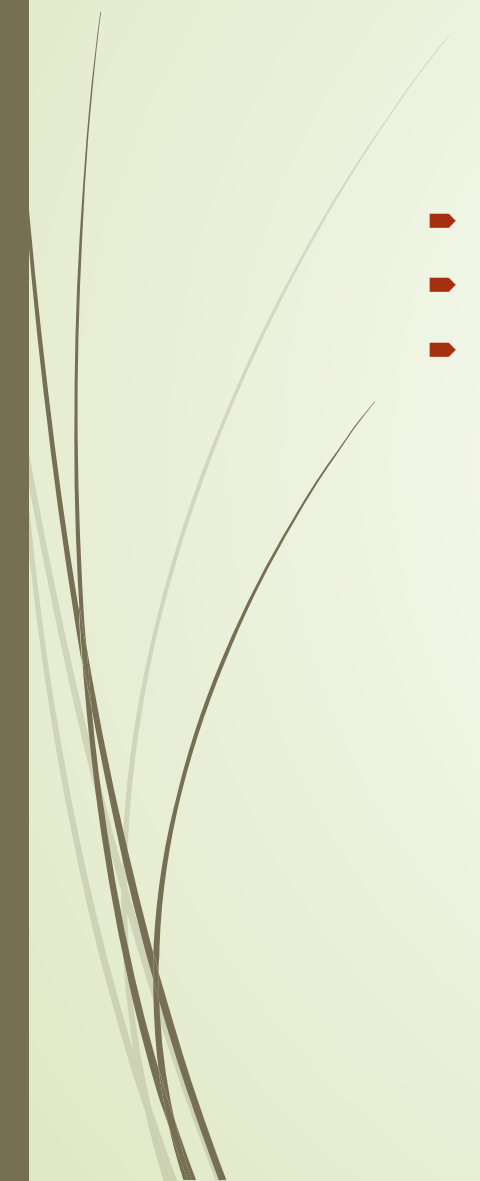



TGC Fuels Task Force

Update to TGC 12/4/2017



8/3/ Meeting

- ▶ Reviewed fuel data report forms
 - ▶ TMC reviewed TMC website data upload portal
 - ▶ Start date TBD based on finalization of fuel specs
- 



11/27/17 Meeting

- ▶ PC10 ULSD Fuels Spec Review
 - ▶ Spec to be kept on TMC website and test procedures to refer to spec and location
 - ▶ Eliminates potential variation and need to update multiple procedures when spec is updated
 - ▶ Discussion around using D6079 as replacement for D6078 for lubricity method and spec
 - ▶ ISB, T12, DD13, C13, and COAT to approve change
 - ▶ Task Force working to add spec on Bio-Diesel content
 - ▶ Task Force working to update Sulfur content method
- ▶ CPCChem to provide data analysis of all batches of PC10 and PC9 fuel for data analysis and refinement of specs
- ▶ PC9 Fuel Spec Review
 - ▶ Review started by Task force and needs completed
 - ▶ More complicated due to varying differences in test procedures

Recommended PC10 Fuel Spec

Measurement	Units	Method	Spec
<i>Additives</i>		Lubricity Additive Only	
<i>Distillation</i>			
<i>90% Volume</i>			292-332
<i>API Gravity</i>	%API	D4052	34-37
<i>Cetane Index</i>	unitless	ASTM D976	report
<i>Cetane Number</i>	unitless	ASTM D613	43-47
<i>Specific Gravity</i>		D4052	0.840-0.855
<i>Ramsbottom Carbon Residue on 10% Distillation</i>	%	ASTM D524	max 0.35
<i>Net Heating Value</i>	MJ/kg	ASTM D3338	report
<i>Composition, aromatics</i>	volume %	ASTM D5186	26-31.5
<i>Composition, olefins</i>	volume %	ASTM D1319	report
<i>Composition, saturates</i>	volume %	ASTM D1319	report
<i>Ash</i>	mass %	ASTM D482	max 0.005
<i>Flash Point</i>	°C	ASTM D93	min 54
<i>Pour Point</i>	°C	ASTM D97	max -18
<i>Cloud Point</i>	°C	ASTM D2500	report
<i>Strong Acid Number</i>	mg KOH/g	ASTM D664	max 0.00
<i>Total Acid Number</i>	mg KOH/g	ASTM D664	max 0.05
<i>Accelerated Stability</i>	mg/100 mL	ASTM D2274	max 1.5
<i>Copper Corrosion</i>	classification	ASTM D130	max 1
<i>Kinematic Viscosity</i>	cSt	ASTM D445	2.0-2.6
<i>Water and Sediment</i>	volume %	ASTM D2709	max 0.05
<i>Total Sulfur</i>	mg/kg	ASTM D5453	7-15
<i>Lubricity (HFRR)</i>	µm	D6079	max 460
<i>Bio-Diesel</i>	XXX	XXX	XXX



TGC Fuels Task Force Recommendations to TGC

- ▶ PC10 Fuel Spec to be agreed upon by each test method using PC10 fuel
 - ▶ All effected surveillance panels to vote and approve

- ▶ Fuel Specs to be kept on TMC website and referred to within procedures
 - ▶ All HD surveillance panels to modify procedures by removing current spec and adding comment on test fuel and location of spec for that fuel
 - ▶ PC9, PC10, and SDTF

December 4, 2017 Meeting

- TGC Meeting held prior to the Executive Committee meeting. A verbal update on details of meeting will be given.

Scope and Objectives

The Technical Guidance Committee is a standing committee under the ASTM Test Monitoring System Executive Committee. The TGC shall consist of the chairmen of the surveillance panels of monitored tests, a representative of each of the test developers/sponsor who are responsible for the test procedures and the Director. The Technical Guidance Committee will advise the Director in technical matters concerning test procedures.

This will involve working 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 procedures. The TGC will provide guidance for future test developments. Additionally, the TGC chairman will liaise with the ACC PAPTG Chair.

Objectives:

- 1) Develop guidelines for issues that are potentially common to all HD/PC engine, gear and bench testing.
- 2) Work with the Rating Committee to provide guidance for issues related to visual deposit ratings.
- 3) Provide guidance on best practices for critical component identification within test procedures.
- 4) Continue to refine the “Guide for Test Development” document as new categories are developed.