

DAIMLER

DD13 Scuffing Test ASTM Taskforce

- JW Marriot Austin, TX
- December 7th, 2015
- 1:00 PM to 3:00 PM Central Time Zone

Background

- This is the 5th DD13 Scuffing Test ASTM Taskforce meeting
- 20 Prove out data sets were completed
- Working group reviewed the 20 tests pre-taskforce assembly
 - Daimler, Lubrizol, TEI, TMC, SWRI, Intertek
 - 2 day in person meeting in addition to a phone conference
 - Results: Concluded we have a viable test, refined procedure in an effort to tighten up test precision, with the intention of moving forward to generate precision statement.

Agenda

1. Timeline
2. Matrix Proposal – run a test matrix to define a precision statement.
 1. Data Discussion/Review

Other Business

1. Rating Workshop/In Person Taskforce Meeting in January/February
Timeframe
2. Next Taskforce Meeting

Timeline Overview

	2015												2016					
	January	February	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June
Define Matrix test procedure																		
Conduct lab visits/inspections																		
Review operational data of Prove-out tests																		
Complete report forms and data dictionary																		
Conduct rating workshop																		
Conduct Precision Matrix																		
Finalize Hours to Scuff Definition (Test Criteria)																		
Analyze matrix testing																		
Calculate test standard deviation along with oil targets & standard deviations																		
Finalize reference oil selection																		
Set up LTMS																		
Determine stand calibration based on precision matrix testing																		
Review and finalize the Qi Limits/control limits																		
Determine calibration and referencing protocols																		
Finalize the test procedure including any additional items including any learnings from the review of the matrix (critical parameters, shutdown protocols, etc.)																		
ASTM ballot issued																		
Appendix K (not required, but will reviewed)																		
Research report																		

Proposed Matrix for Precision Discovery

	LZ		SWRI		IAR	
Oil X	1. Done	3. Proposed	2. Proposed	4. Proposed	1. Done	4. Proposed
Oil C	2. Proposed	4. Proposed	1. Proposed	3. Proposed	2. Proposed	3. Proposed

Color	Explanation
Green	Test Completed/Done
Blue	Test proposed for precision matrix

- Proposal to run these tests in order to acquire data to define test precision
- Allows for complete data set for analysis with proposed enhanced procedure

Additional Comments
Goal: Follow similar guidelines used in PC 11 precision matrices
3 Labs (1 stand at each lab)
6 Total Tests for each oil (Oil X and Oil C)
4 Total Tests within each stand