

DD13 Scuffing Task Force Call 6/10/16

Agenda:

- 1) Discussion over fuel specifications for DD13 scuffing Test
- 2) Fuel Flow & Coolant Flow Time Responses
- 3) Limit counts

Fuel Specification

Continue to monitor other surveillance panel's decisions on the fuel specification.

This group needs to understand what properties in the fuel can affect the severity of the test.

The priority should be does the DD13 need sole source? Yes, this will need to be added into the test procedure. As well as develop a method for how another supplier can be brought in.

Mark Cooper will keep the task force up to date on the status of the fuel discussion in the Mack Panel. He will also need something from Daimler that displays critical parameters for the fuel.

The fuel supplier will need to be added into the procedure until other sources are approved. This will ensure that everyone is running the same fuel.

Fuel Flow and Coolant Flow Time Response

LZ used a needle valve at the fuel in line and brings the flow to zero from a 71 kg/hr flow rate.

Discussion over rise time calculations, should 85% be used or 62%? All documented numbers were to 62%. Data that has been reported appears to be correct.

Labs will recalculate the rise time values to the higher percentage. Fuel flow calculations will be done using stage 1 flow rate to zero for rise time calculations.

Limit Counts (Patrick's Presentation gives more detail on each of these)

Report forms have extra counts added.

Oil Gallery Temperature will be added to the report forms.

Torque will be removed from the steady state section of the report forms.

Transition limit count will need to be adjusted in the procedure to ensure that all data will be captured through the transition.

Stage 2 warm ups – oil gallery temp and coolant jacket temp will utilize the upper bound for the limit count during warm up. This will allow the test user to have documentation of any overshoots during the warm up.

Do not subject anything to limit counts past the hours to scuff determination. This will allow the QI and count parameters to not count after the scuffing has occurred.

Labs will be ready for references next week. Oil has been sent to labs in San Antonio.