



TO: Non-Truck OEMs

FROM: Application Engineering

SUBJECT: **MY2013 Vehicle Sign-Off Test Requirements**

SUMMARY

For OEMs with approved DD13 Vehicle Sign-Offs for EPA10 installations, the test requirements for MY2013 have been streamlined, based on the similarities between the EPA10 and MY2013 engine installations. Any OEMs making changes to significant engine related hardware from EPA10 vs. MY2013 will need to validate the performance of the related systems.

All of the detailed requirements for the installation and validation of the DD Series engines can be found in EPA13 DD Platform Application & Installation Manual (DDC-SVC-MAN-0132).

All of the detailed requirements for the installation and validation of the electronic controls for the MY2013 DD Platform engines can be found in DDEC13 Electronic Controls Application & Installation Manual (DDC-SVC-MAN-0127).

SPECIFIC TEST DETAILS

Since many of the engine related performance specifications are very similar from EPA10 to MY2013, it is not necessary to perform a complete battery of validation tests when an existing EPA10 Vehicle Sign-Off has already been obtained. In order to receive an approved Vehicle Sign-Off for MY2013, the following tests are required:

Air Intake System

- Air Intake Temperature Rise
- Air Intake Restriction
- CAC System Pressure Drop
- CAC Outlet to Ambient Temperature Differential

Exhaust System

- Exhaust Back Pressure
- Engine Outlet to ATS Inlet Temperature Drop

Diesel Exhaust Fluid (DEF) System

- Complete System Validation per Vehicle Sign-Off Data Sheet, Section 4

Fuel System

- Fuel Inlet Restriction
- Fuel Return Restriction

Engine Electronics

- SyLVR Test for Specific Applications (motor coach and firetruck applications are required to perform a set of SyLVR Tests on the new electronic modules and software versions).

OBD Requirements

- A data logger will be provided by Application Engineering to collect data during the mileage accumulation phase of the testing. Specific details of the installation of the logger, data logging and data transfer back to DETROIT should be discussed with your Application Engineer.
- Mileage Accumulation / Customer Demo Testing - The initial requirement for 15,000 miles of in-service testing has been modified, based on the specific application. A minimum of two manual regeneration events should be included.
 - Coach - 10,000 miles
 - Recreational Vehicle - 5,000 miles
 - Firetruck - 5,000 miles simulating a typical mix of road, pump and idle operation
 - Crane - 3,000 miles
 - Concrete Mixer - 5,000 miles + 80 hrs and 1,000 miles of customer usage
 - Well Servicing Rig - 200 hrs of in-service operation

The detailed instructions for all of these tests can be found in the Vehicle Sign-Off Test Procedures, located on www.DDCSN.com, or through your Application Engineer. All test results should be submitted to your Application Engineer for approval using the Vehicle Sign-Off Data Sheet, also located on www.DDCSN.com, or through your Application Engineer.

ACCESS TO DETAILED INFORMATION

Access to the Application & Installation Manuals can be found in the secure area of www.DDCSN.com, under "Literature", "A&I Manuals" (see below). You must be logged in to www.DDCSN.com with a valid ID to access this area of the site. For more detailed questions, or additional information, please contact your Application Engineer.

