

Solution K03179378 Tuesday, March 6, 2018 7:23:32 PM CET

Solution

Cause	US14+OBD16 (Non-Common Rail Fuel System) Chassis OBD15 and US14+OBD16 (Commonly Year Models 2016 and 2017) Conventional Chassis that spend most of the time in stop-and-go operation may log DTCs P24A4 and
	P10FE, together or separately.

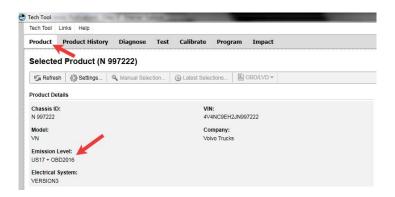
Solution Overview

During city driving (P&D and LTL) duty cycles, the Diesel Particulate Filter (DPF) can accumulate large amounts of soot inside. If the chassis is not driven on the highway enough for passive regeneration to reduce soot levels, a stationary regeneration will be required. The unit may also display "Service Only" regeneration on the Driver Information Display (DID) with no prior alert to the driver, which can result in an unplanned stop at a maintenance facility for a service regeneration can be performed.

Repair

Verify the chassis emissions level

• Details can be found in the Product Details box on the Product tab in PTT as seen below:



For OBD15 And US14+OBD16 Chassis:

- Software improvements have been released to address these codes. If one or both codes are present and there are no other symptoms to indicate a physical issue, software should be checked and updated as necessary.
 - Updated software for OBD15 chassis will have a Main Software

(MSW) 23167877 or newer

- Updated software for US14+OBD2016 chassis will have a Main Software (MSW) 23169815 or newer
- In some cases, containment software may have been loaded to the chassis with special instructions provided to the driver.
- For chassis that have older MSW part numbers than listed above, including chassis with containment previously loaded:
 - A. Reprogram the following modules in the order listed.
 - 1. Engine Control Module (EMS)
 - 2. Aftertreatment Control Module (ACM)
 - B. Reset the soot load, clear DTCs and run a regeneration if P24A4 or P10FE were present before programming the vehicle.
- If the chassis returns for frequent recurrence of the code following the software update, normal Guided Diagnostic procedures will need to be followed.

Interna ALL INFORMATION BELOW is previous information for reference only:

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Problem Description

Vehicle reached "Service only" regeneration with no warning

"Service only " regeneration forces customer to visit dealership (Unplanned stop).









- Truck MY 2016/2017 (may be Truck MY 2015).
- P24A4 or P10FE fault code (>150% Soot Load), RED STOP lamp is lit
- · Dealer technicians are not finding any HW problem.
- Only seen in 13L Short Haul/ City Driving vehicles
- Customers -- Parr Lumber/ Lalonde Contractors/Lansdale Warehouse etc

Instruction to Drivers/Customers



- When regeneration is requested by the cluster, as shown below, start regeneration at the earliest convenience.
- Driver does not need to interrupt his/her mission, but has to complete regeneration within 8 hours of receiving first message.
- Typical regeneration takes ~40 minutes.







• Unique truck application (duty cycle) will dictate the regeneration request frequency. Expect regeneration request once or twice a week in light load, city driving applications.

Containment until Permanent Solution Released

Soot Warning Level moved from 130% (2)to 90% (< A=100%)



A = 100% 2 = 130% 3 = 140% 4 = 180%

- When soot level reaches 90% soot load, instrument cluster will request regeneration.
- High confidence in containment: "Warning" (90% soot load) message to "service only" (>150%) message will have 8 hour interval.
- Vehicles running short haul duty cycles with this containment may need to do regeneration once a week, depending on transiency of duty cycle.
- Only to be applied to trucks/fleets with P24A4 issue
- · No fault found and short haul /city duty cycle
- Consequence of this containment "frequent regeneration requests".
- Requires support from Aftermarket Support Engineers.

If the conversion kit is performed, <u>THIS DOCUMENT</u> must be delivered to the servicing dealer and explained to the customer.

Solution visibility	Dealer distribution
Function(s)/compo	nent(s) affected
Function affected	exhaust, DPF
Function Group	
Function Group	$254\ catalytic\ converter;$ exhaust emission control equipment , $258\ emissions$ aftertreatment , $284\ control\ system,$ fuel supply
Customer effect	
Main customer effect	soot, regeneration, fault code/display
A 1 * * 4 4*	

Administration

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NA_MACK_Vehicle_Ran ge	Conventional, CHU, CXU, GU
NA_VOLVO_Vehicle_f	Range
NA_VOLVO_Vehicle_Ra nge	Conventional, VNL, VNM, VHD, VAH
Engine family	
Engine family	Volvo, 11L Engine, 13L Engine, Mack, MP7, MP8
Emission Standard	
Emission Standard	US16, US15