

** SOLUTION **

Title	<i>Expired - Refer To P20EE Solutions - NOx Conversion Test (Test 2549-08-03-03) Interpretation</i>		
Mack M	lodels		
Mack Mod	del Cabover, LEU, LR, MRU - TerraPro, Conventional, CHU - Pinnacle, Axle back, CXU - Pinnacle, Axle front, GU - Granite, TD - Titan		
Volvo M	Aodels		
Volvo Mod	del Conventional, VNL, VNM, VNX, VAH, VHD		
Emissio	on Standard		
Emission S	Standard US10+OBD13, US14+OBD13, US17, US17+OBD16		
Engine	family		
Engine fam	nily Volvo, 11L Engine, 13L Engine, 16L Engine, Mack, MP7, MP8, MP10		
** SOLU	UTION **		
Cause	There have been reports of the NOx conversion test being performed when it is not needed causing the results to be interpreted incorrectly.		
Soluti on	 Please use the NOx conversion test only when one or more of the four fault codes are lighting the lamp (Confirmed DTC). 1. P20EE, P225C and P225E . 2. P2201 (Except OBD2015, Truck MY2016, with engine MSW 22644017 or older). Please make sure the fault is "<i>confirmed</i>" before performing this operation. 		
	Another reason to run the NOx conversion test is if the vehicle is in SCR inducement with suspected DEF quality concerns (Active P103B, P207F are typical fault codes under this scenario).		
	NOx conversion test only checks the NOx sensors by comparing against each other. Therefore you will have to use original fault code to determine which sensor to replace if test results are bad.		
	While running NOx conversion test if any new NOx sensor faults are logged (Egs: P220E-93, P220F-93), make sure to troubleshoot the code (in case of P220E-93 requires NOx1 sensor to be replaced).		
	Egs: Truck had MIL ON due to P2201 fault (NOx1 sensor rationality fault). NOx conversion test showed the following results (Typical Good NOx1 value before shutdown is around 300ppm).		
	For the case below, we should be replacing NOx1 sensor, not NOx2 sensor.		



Main customer effect	regeneration, calibration/programming/pairing/missing operation, diagnostics /methodology, efficiency/abnormal behavior, fault code/display
Fluid implicated	AdBlue, air
Lights/Messages on information display	message on display,,/
Conditions	
Vehicle operating mode	when stationary
Frequency of occurrence of problem	always
Administration	
Author	ut0031h
Last modified by	RU4469V

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