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Title: Determining a DPF's health on a used vehicle

Applies To: All vehicles that use DPFs

DESCRIPTION

An aftertreatment system inspection can be performed before selling or purchasing a used vehicle with 2007 or 2010 EPA emission engines.

This inspection is best suited for a DPF's with less than 75,000 miles or 2250 hours since the last cleaning. DPF's beyond these miles / hours are best inspected off the vehicle.

Note: A vehicle's maintenance and warranty history can also help predict DPF health

Follow the inspection check sheet by engine type .

2007 - 2010 EPA Emission MaxxForce 5, 7 , DT 9 and 10 Engines				
Step	Description	Pass	Fail	Actions Taken
1.	Perform an external DPF, DOC and Exhaust System inspection. a. Inspect for dents, cracks or loose components b. Inspect Exhaust Pipes and joints for leaks or damage c. Inspect all Aftertreatment sensors and connections. d. Check all wire routing and clipping around the exhaust system	☐	☐	
2.	Check all Diagnostic Trouble Codes (DTC). a. Check all engine DTCs and correct all active codes.	☐	☐	
3.	Inspect the tailpipe for soot If soot build-up is present, check vehicle warranty and repair history to see if DPF was replaced. a. If DPF was not recently replaced, remove DPF and inspect. b. If DPF was recently replaced, clean the soot off the tailpipe	☐	☐	
4.	With ServiceMaxx - Run the Onboard Cleanliness Test. a. If the test fails - perform cited diagnostics	☐	☐	
5.	Perform the DPF "Snap Accel Test"- IK0700032	☐	☐	
6.	Review warranty and repair history for issues that could have impacted the aftertreatment system	☐	☐	
7.	If the aftertreatment system passes the above tests then one can have reasonable confidence that the system is ok for continued service. If in doubt, remove the DPF and inspect.	☐	☐	

2007 EPA Emission MaxxForce 11 and 13 Engines				
Step	Description	Pass	Fail	Repaired / Replaced
1.	Perform an external DPF, DOC and Exhaust System inspection. a. Inspect for dents, cracks or loose components b. Inspect Exhaust Pipes and joints for leaks or damage c. Inspect all Aftertreatment sensors and connections. d. Check all wire routing and clipping around the exhaust system	☐	☐	
2.	Check all Diagnostic Trouble Codes (DTC). a. Check all engine DTCs and repair all active codes.	☐	☐	
3.	Inspect the tailpipe for soot If soot build-up is present, check vehicle warranty and repair history to see if DPF was replaced. a. If DPF was not recently replaced, remove DPF and inspect. b. If DPF was recently replaced, clean the soot off the tailpipe	☐	☐	
4.	With ServiceMaxx - Run the Onboard Cleanliness Test. a. If the test fails - follow diagnostics	☐	☐	
5.	If the Aftertreatment Fuel Injector (AFI - Doser) has not been serviced follow the cleaning and testing procedures here . IK	☐	☐	
6.	Perform the DPF "Snap Accel Test"- IK0700032			
7.	Review warranty and repair history for issues that could have impacted the aftertreatment system	☐	☐	
8.	If the aftertreatment system passes the above tests then one can have reasonable confidence that the system is ok for continued service. If in doubt, remove the DPF and inspect.	☐	☐	

2010 EPA Emission MaxxForce 10, 11 , 13 and 15 Engines				
Step	Description	Pass	Fail	Repaired / Replaced
1.	Perform an external DPF, DOC and Exhaust System inspection. a. Inspect for dents, cracks or loose components b. Inspect Exhaust Pipes and joints for leaks or damage c. Inspect all Aftertreatment sensors and connections. d. Check all wire routing and clipping around the exhaust system	☐	☐	
2.	Check all Diagnostic Trouble Codes (DTC).	☐	☐	

	a. Check all engine DTCs and repair all active codes.			
3.	Inspect the tailpipe for soot If soot build-up is present, check vehicle warranty and repair history to see if DPF was replaced. a. If DPF was not recently replaced, remove DPF and inspect. b. If DPF was recently replaced, clean the soot off the tailpipe	☐	☐	
4.	With ServiceMaxx - Run the Onboard Cleanliness Test. a. If the test fails - follow diagnostics	☐	☐	
5.	Perform the DPF "Snap Accel Test"- IK0700032	☐	☐	
6.	Review warranty and repair history for issues that could have impacted the aftertreatment system	☐	☐	
7.	If the aftertreatment system passes the above tests then one can have reasonable confidence that the system is ok for continued service. If in doubt, remove the DPF and inspect.	☐	☐	

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