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Title: 2010-2012 MaxxForce 7 Air Compressor/Turbocharger Oil Seal Leaks

Applies To: 2010-2012 MaxxForce 7

DESCRIPTION

Excessive crankcase pressure in the 2010 - 2012 MaxxForce 7 may cause air compressor and/or turbocharger oil seal leaks. The air compressor and turbocharger oil returns feed directly into the crankcase, this results in high internal component pressure pushing oil past the seals.

SYMPTOMS

- Turbochargers Pushing Oil in Intake/Exhaust
- Air Compressor Oil Seal Failure/Leaks
- Front and Rear Main Seal Leaks
- Plugged Crankcase Breather
- Excessive Oil Exiting Breather Tube

DIAGNOSTIC CHECKLIST

Please reference *Diagnostic Manual* [0000001681](#) under Performance Diagnostics, Special Test Procedures, and Blow-by Test & Crankcase Pressure Test. If the engine is not in a runnable condition due to excessive leaks/oil contamination, disconnect CAC to prevent oil entering engine and/or press the air compressor seal back in place for diagnostic purposes only.

1. Crankcase Breather – Verify the crankcase breather is a non-serviceable certified breather. Please See [121203](#) *New Non-Serviceable Crankcase Breather - EPA 10 MaxxForce® 7*
2. Crankcase Pressure (Crankcase Breather Condition) - Measure the engine crankcase pressure per the *Diagnostic Manual*. (High Idle Spec: 24 inches H₂O)
3. Engine Blow-by (Power Cylinder Condition) - Measure the engine blow-by pressure per the *Diagnostic Manual*. (High Idle Spec: 9 inches H₂O)
4. Relative Compression Test – Run two relative compression tests with a battery charger connected to supply ample power to the starter.

After doing all diagnostic steps, if the results remain out of specification, verify each step was completed correctly and the proper decision was made. Do NOT replace the leaking component and notify supervisor, open a case file with Navistar's Technical Support for further action.

STANDARD REPAIR TIMES (SRT)

Diagnostic Test	Application	Warranty Code	SRT
Blow-by	CE/BE 4300 A/E Bus Terminal Tractor TerraStar	GY12-2056X K12-2056X TG12-2056X TT12-2056X-20 TS12-2056X	0.3 Hrs

Diagnostic Test	Application	Warranty Code	SRT
Crankcase Pressure	CE/BE 4300 A/E Bus Terminal Tractor TerraStar	GY12-2057X K12-2057X TG12-2057X TT12-2057X-20 TS12-2057X	0.2 Hrs

Diagnostic Test	Application	Warranty Code	SRT
Relative Compression	CE/BE 4300	GY12-2058X K12-2058X	0.1 Hrs

	A/E Bus	TG12-2058X	
	Terminal Tractor	TT12-2058X-20	
	TerraStar	TS12-2058X	

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