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Bulletin: CLIB-0001

Date: October 18, 2005

Bulletin Type: Service

Topic: Idle Rattle in Heavy Duty Trucks

Issue Description:

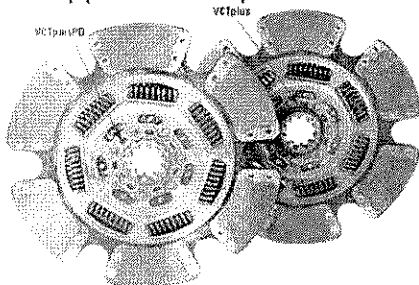
Idle rattle or neutral rattle is noise at idle caused by fluctuations in flywheel speed that result in speed variations at the input shaft. This condition can cause the internal gearing to contact both the drive side and coast side, creating a continuous noise. This idle rattle noise can be identified by slowly raising the engine RPM, usually between 700 and 1000 RPM's the noise will diminish or be eliminated. Idle rattle is not a component damaging condition, however it can be very annoying to the operator as it does create a very abnormal noise. Idle rattle can also be identified by partially releasing the clutch to see if the noise goes away.

Containment/Corrective Action:

Eaton Clutch Division has developed the VCT Plus PD (pre-damper) clutch disc that has a special first stage in the damper, which is designed to isolate the engine idle pulsations before the pulsations reach the transmission. The pre-damper disc can be identified by the presence of 7 small springs around the hub.

Possible options that can be implemented as a solution for field complaints:

- Raising the engine idle RPM will change the idle characteristics of the engine and the noise may diminish. The recommended maximum default idle speed is 750 RPM.
- Install the VCT Plus PD (pre-damper) clutch discs, which are available for applications up to 2250 lb-ft with the different Eaton 15.5" clutch models.



Affected Models/Population:

Heavy Duty Trucks with Mechanical Transmissions and 15.5" clutches.

Field Strategy:

Idle rattle complaints are not the result of defective transmissions or the factory-installed master clutch. If an idle rattle complaint is encountered, the complaint may be resolved by replacing the original clutch discs (front & rear) with the VCT Plus PD discs only.

There is no need to replace the intermediate plate or pressure plate, unless damage or wear requires.

- Implement the above corrective actions for problem resolution.
- If the customer chooses to just replace the original clutch discs with the VCT Plus PD discs, provide the following usage information.
 - Applications up to 1860 lb-ft – use disc part number 128716 (front & rear)
 - Applications from 1861 to 2050 lb-ft – use disc part number 128717 (front & rear)
 - Applications from 2051 to 2250 lb-ft – use disc part number 128718 (front & rear)

Detailed Part Number Information:

Clutch Model & Torque Rating	Assembly & Disc Part Numbers				Availability (Production vs. Service)
	Assy. with VCTplus	Disc #	Assy. with VCTplusPD	Disc #	
EP XL 1552 2250'#	108009-32	128710	108009-42	128718	PRODUCTION
EP XL 1552 2250'#	108009-32Y	128710	108009-42Y	128718	SERVICE
EP 1552 1860'#	108925-20	128708	108925-30	128716	BOTH
EP 1552 2050'#	108925-25	128709	108925-35	128717	BOTH
EP XL 1552 1860'#	108926-20	128708	108926-30	128716	PRODUCTION
EP XL 1552 1860'#	108926-20Y	128708	108926-30Y	128716	SERVICE
EP XL 1552 2050'#	108926-25	128709	108926-35	128717	PRODUCTION
EP XL 1552 2050'#	108926-25Y	128709	108926-35Y	128717	SERVICE
**EP 1552 2050'#	108935-26	128709	108935-36	128717	BOTH
EP 1552 2250'#	108937-32	128710	108937-42	128718	BOTH
**SOLO 1552 2050'#	109700-25	128709	109700-36	128717	BOTH
SOLO 1552 1700'#	109701-19	128708	109701-29	128716	BOTH
SOLO 1552 1860'#	109701-20	128708	109701-30	128716	BOTH
SOLO 1552 2050'#	109701-25	128709	109701-35	128717	BOTH
SOLO XL 1552 1860'#	109705-20	128708	109705-30	128716	PRODUCTION
SOLO XL 1552 1860'#	109705-20Y	128708	109705-30Y	128716	SERVICE
SOLO XL 1552 2050'#	109705-25	128709	109705-35	128717	PRODUCTION
SOLO XL 1552 2050'#	109705-25Y	128709	109705-35Y	128717	SERVICE
SOLO XL 1552 2250'#	109706-32	128710	109706-42	128718	PRODUCTION
SOLO XL 1552 2250'#	109706-32Y	128710	109706-42Y	128718	SERVICE
SOLO 1552 2250'#	109708-32	128710	109708-42	128718	BOTH
EP 1552 1700'#	108925-82	128462	N/A	128716	SERVICE
**EP 1552 1700'#	108935-82	128462	108935-29	128716	BOTH
SOLO 1552 1700'#	109701-82	128462	109701-29	128716	BOTH
SOLO XL 1552 1700'#	109705-82	128462	N/A	128716	SERVICE

** Dual Zerk

Warranty Information:

Because idle rattle is not generated from nor the result of the clutch and its operation, Eaton will not approve or pay for the replacement of a clutch due to idle rattle complaints.

Warranty Coverage:

None

The material contained in this bulletin is product improvement information. Eaton and Dana Corporation are not committed to, or liable for, canvassing existing products. FSUD: 2004-CL-4225