

## Knocking noise from crank assembly, noise from the engine

Topic number	LI03.10-P-052286
Version	1
Design group	03.10 Connecting rods, pistons
Date	09-09-2011
Validity	Vehicles with engine 272 with 3.5 liters displacement and engine 273 with 4.6 liters displacement. Affected vehicles are mostly in production dates from August 2010 to November 2010 but might be outside of this range.
Reason for change	

**Complaint:**

Knocking noise from crank assembly. Clattering noise from the engine. Might be incorrectly diagnosed as lifter noise or camshaft adjuster noise.

Attachments	
File	Designation
engine noise.mp3	Example file of engine noise
example of damaged cylinder.JPG	Example picture of damaged cylinder

**Cause:**

Noise caused by scuffed, damaged cylinders resulting from scratching cylinder walls by the pistons oil scraper ring.

Attachments	
File	Designation
scoring issues.pdf	other examples

**Remedy:**

Compare the engine noise to the attached sound file.

Inspect cylinder walls with a light probe (bore scope). Refer to the attached illustration of damage example.

If the noise is related to the cylinder wall scoring, the engine must be replaced.

After correctly diagnosing the issue submit DV request with all required information.

This situation was corrected on engines as of production numbers listed below:

Engine 2729xx 31932895

Engine 2739xx 30441186

Symptoms
Power generation / Engine noise / Ticking /
Power generation / Knocking/clacking / Engine noise /

Power generation / Chattering / Engine noise /
Power generation / Grinding / Engine noise /
Power generation / Rattling / Engine noise /
Power generation / Clattering / Engine noise /
Power generation / Engine noise / Pounding /
Makes noise / Power generation / Engine noise /
Power generation / Rings/knocks / Engine noise /