

Special Service Message

NOTE: A Special Service Message is a formal communication issued by Land Rover and carries the same importance of a Technical Service Bulletin. An SSM is a quick method of communicating "Need To Know" information to the technical service community. SSM's may be issued in advance of a technical bulletin or may be the only communication on a given topic. All information contained in Land Rover technical communications are intended for use by trained, professional technicians with the knowledge, tools, and equipment required to complete the procedure correctly and safely. It informs the Technicians of conditions that may occur on some vehicles, or provides information that could assist in correct vehicle and diagnostic service.

SSM 72578 - Crankshaft/Crankshaft Bearing Concerns – 3.0 TDV6 Diesel Engine

Models : LA - Discovery 4 / LR4

LG - Range Rover (All
New) - L405

LS - Range Rover Sport

LW - Range Rover Sport
- L494

Engineer Littler Mike

Name :

Last 05-01-2016 16:12:28

Modified :

Category : Engine

Symptom : 499000 Basic Engine

Content : **Issue:**

Crankshaft/crankshaft bearing failure – 3.0 TDV6 Diesel Engine. Engine makes a loud ‘rumbling/knocking’ sound when running which worsens as the engine is placed under load.

Cause:

Rotation of main bearing shells.

Action:

The list below summarises typical symptoms of crankshaft/bearing failure, but please contact your DTS/FRED team if in any doubt as they will be pleased to offer assistance:

- Crankshaft is seized, engine cannot be turned either via starter motor or crankshaft pulley bolt.
- Oil sump or engine cylinder block is holed, with oil leakage and/or metallic debris found on engine under-tray.
- Engine makes a loud ‘rumbling/knocking’ sound when running which worsens as the engine is placed under load. The engine oil pressure warning light may flash or be continuously illuminated.

Engines incorporating crankshafts with reduced run out on the Main Bearings (max tolerance reduced from 50 to 30 microns) have been introduced from engine number 011215-1001200. The engine number is stamped on the left side of the cylinder head. Please only raise Quality Report EPQRs for any engine concern post the engine number stated above.