



TECHNICAL ALERT

March 18, 1999

TA99 1201

NAS US Only Cda Only

ATTENTION: Service Manager Service Advisor Technician

Sump Bolt Oil Seep on 1999 "Thor" V8 Engines

The two rear most structural sump bolts that thread into the rear main bearing cap may be found to leak on some 99 MY THOR V8 engines. These bolts can be easily identified since they are the pair that are recessed deep into the sump casting at the rear.

Land Rover is working on a permanent resolution of this leak path. Should you encounter a vehicle with oil seepage from one or both of the rear bolts, the following repair should be attempted before removing the sump to replace the gasket.

CAUTION: Perform the bolt head sealing repair only on one bolt at a time.

1. Perform the following repair on each leaking bolt:
 - Remove **one** leaking bolt and clean thoroughly.
 - Clean the bearing cap threads and the sump casting of all oil.
CAUTION: Make sure not to get any "RIGHT STUFF" onto the bolt threads.
 - Apply a small amount of Permatex/Loctite "THE RIGHT STUFF" to the underside of the bolt head.
 - Reinstall the bolt and torque to **22 Nm (16 lbf.ft.)**.
2. If a second bolt is leaking, go to Step 1 and repeat the process for that bolt.
3. Start the engine and allow it to reach full operating temperature.
4. Check for leaks. An engine oil leak detection dye may be used to help re-check the area for leaks.

The above procedure will only stop oil from coming down the bolts. If the oil is exiting out the back of the bearing cap at the sump joint, the bell housing inspection plate can be removed to help confirm the location of the oil leak, again using dye to assist in locating the leak.

If the sump should need to be removed, refer to the WSM engine section. The correct process to reseal the structural sump is clearly described.

NOTE: Pay particular attention to where the RTV (THE RIGHT STUFF) must be placed on the block when reattaching the sump with the rubber gasket. You still need to put RTV in specific areas when using the rubber gasket.

A TIB will be issued when final resolution is determined.