| Reference | SSM74037 |
|---------------|--|
| Models | Discovery / L462 |
| | Range Rover / L405 |
| | Range Rover Sport / L494 |
| | Range Rover Velar / L560 |
| Title | ZF Transmission - 8HP suspected sump pan oil leak |
| Category | Driveline |
| Last modified | 21-Sep-2018 00:00:00 |
| Symptom | 501000 Automatic Transmission Concerns |
| Content | lssue: |
| | A customer may report an oil leak under the vehicle from the transmission suspected to be the sump pan. Engineering would like to |
| | investigate the root cause as to these concerns |
| | To ensure correct diagnosis and repair please carry out the following steps: |
| | Action |
| | 1. Raise vehicle on ramp |
| | 2. Using a suitable degreaser, thoroughly degrease the suspected component all the way around as well as, approximately, 25-50mm |
| | (1-2 inches) above the suspected leak |
| | 3. Using an air gun ensure all traces of oil are removed from the bolts/thread attached to the sump pan. |
| | 4. Using a suitable leak detector spray, thoroughly coat the suspected component as well as, approximately, 25-50mm (1-2 inches) |
| | above the suspected leak, LR112798 or C2C42090 |
| | 5. Allow to sit for a couple minutes to ensure all oil has been cleaned off |
| | 6. Take a clear, in focus photo of the spray on the suspected area before proceeding. |
| | 7. Reassemble vehicle and complete a suitable road test and make sure that the engine gets to normal operating temperature |
| | 8. Return the vehicle to workshop and raise on ramp |
| | Inspect the suspected component for fluid leaks, the detector spray should leave a trace from the leak area Identify leaking position: |
| | If a leaking position. If a leaking point has been identified on the sump pan, take a clear, in focus photo of the leaking position. Proceed to 10. |
| | If a leaking point has not been identified, proceed to 11 |
| | 11. At the customer's convenience, raise a TA attaching photos of the sump pan requesting a visit from ZF engineering. |
| | The TA will advise whether to proceed with repair or whether a ZF engineer will visit the site. |
| | 12. If a leaking position has not been identified, check the following areas: |
| | Check Technical Bulletins reference Automatic Transmission leaks |
| | Transmission output shaft seal |
| | Transmission oil cooler pipes not secured correctly |
| | Transmission electrical plug |
| | 13. If a sump pan replacement is required, record the breakaway torques for the sump pan bolts (as detailed in attachment) and raise |
| | EPQR attaching photos of leak and breakaway torque attachment. |
| | Technicians - Please rate this SSM and provide comments so that future communications can be improved. |
| | 1 = Poor – Basic information provided – The SSM does not help me resolve the customer concern. |
| | 3 = Average – Adequate information provided – The SSM partially helps me resolve the customer concern. |
| | |

5 = Excellent – All required information provided to resolve the customer concern.