

Tobar Checklist for Leakage Analysis

Customer: _____ Miles/Hours Service: _____

Seal Application: _____

STEP 1 INSPECT THE SEAL APPLICATION BEFORE REMOVAL

- | | | | |
|-------------------|---|--|--|
| Amount of Leakage | <input type="checkbox"/> Slight | <input type="checkbox"/> Seal Area Damp | <input type="checkbox"/> Heavy Leakage |
| Condition of Area | <input type="checkbox"/> Clean | <input type="checkbox"/> Dusty | <input type="checkbox"/> Mud Packed |
| Leakage Source | <input type="checkbox"/> Between Lip & Shaft | <input type="checkbox"/> Between OD & Bore | |
| | <input type="checkbox"/> At Retainer Gasket | <input type="checkbox"/> Between Elements of Seal | |
| | <input type="checkbox"/> At Retainer Bolt Holes | <input type="checkbox"/> Between Wear Sleeve & Shaft | |

STEP 2 WIPE AREA CLEAN AND INSPECT

- | | | |
|------------------------|---|--|
| Check Conditions Found | <input type="checkbox"/> Nicks on Bore Chamfer | <input type="checkbox"/> Seal Loose in Bore |
| | <input type="checkbox"/> Seal Cocked in Bore | <input type="checkbox"/> Seal Case Deformed |
| | <input type="checkbox"/> Seal Installed Improperly | <input type="checkbox"/> Paint Spray on Seal |
| | <input type="checkbox"/> Shaft to Bore Misalignment | <input type="checkbox"/> Other _____ |

STEP 3 ROTATE SHAFT IF POSSIBLE

- | | | |
|------------------|---|---|
| Check Conditions | <input type="checkbox"/> Excessive End Play | <input type="checkbox"/> Excessive Runout |
|------------------|---|---|

STEP 4 SYSTEM INFORMATION

- Application Pressure _____ Estimated Operating Temperature _____ RPM _____
- Sump Level Full 3/4 Full 1/2 Full 1/4 Full

STEP 5 MARK THE SEAL AT THE 12 O'CLOCK POSITION & REMOVE IT CAREFULLY

Retain an oil sample

STEP 6 INSPECT THE APPLICATION WITH SEAL REMOVED

- | | | |
|------------------------|--|---|
| Check Conditions Found | <input type="checkbox"/> Rough Bore Surface | <input type="checkbox"/> Flaws or Voids in Bore |
| | <input type="checkbox"/> Shaft Clean | <input type="checkbox"/> Shaft Corroded |
| | <input type="checkbox"/> Coked Lube on Shaft | <input type="checkbox"/> Shaft Discolored |
| | <input type="checkbox"/> Shaft Damaged | <input type="checkbox"/> Shaft Grooved |

STEP 7 INSPECT THE SEAL

- | | | | |
|-----------------------|--|--|---|
| Primary Lip Condition | <input type="checkbox"/> Normal | <input type="checkbox"/> Damaged (Nicks) | <input type="checkbox"/> Hardened (Stiff) |
| | <input type="checkbox"/> Soft (Flexible) | <input type="checkbox"/> Excessive Wear | <input type="checkbox"/> Eccentric Wear |
| Seal OD | <input type="checkbox"/> Normal | <input type="checkbox"/> Axial Scratches | <input type="checkbox"/> Damaged Rubber |
| Spring | <input type="checkbox"/> In Place | <input type="checkbox"/> Missing | <input type="checkbox"/> Separated |
| | <input type="checkbox"/> Corroded | | |

Comments:

Completed by: _____

Date: _____