Sealing System Leakage

Sealing System Leakage Analysis Checklist Part 3

An examination of the housing, shaft, and lubricant (after seal removal).

Inspect the Housing Bore Area

Check	Condition	Reference Code
❑	Measure bore diameter: (_____)	C.1.1
❑	Bore chamfer damaged	C.1.2
❑	Flaws or voids in housing	C.1.3
❑	Tool withdrawal marks in bore	C.1.4
❑	Bore surface scratched or galled	C.1.5

Inspect the Shaft in the Seal Contact Area

Check	Condition	Reference Code
❑	Measure shaft diameter: (_____)	C.3.1
❑	Shaft surface corroded	C.3.3
❑	Seal wear path in wrong location	C.3.4
❑	Scratches or nicks at lip contact area	C.3.5
❑	Measure wear path width: (_____)	C.3.7
❑	Discoloration on shaft surface	C.3.8
❑	Coked lubricant present	C.3.8
❑	Shaft chamfer damaged or missing	C.3.11
❑	Wear sleeve loose on shaft (if applicable)	C.3.13

Remove Shaft from Application for Further Inspection

Characteristic	Reference Code
Measure surface roughness: (_____Ra)	C.3.2
Measure depth of wear path: (_____)	C.3.6
Measure shaft lead: (_____Deg)	C.3.9
Measure shaft hardness: (_____Rc)	C.3.10
Check for proper shaft material	C.3.12

Inspect the Lubricant

Check		Reference Code
❑	Contaminates (particulates) in filtered lube	C.4.1

Compare Lubricant from Application with New Lubricant for Proper Type

Check	Condition	Reference Code
❑	Color different	C.4.2
❑	Viscosity different	C.4.2
❑	Odor different	C.4.2

Completed By: _____ Date: