Sealing System Leakage

Sealing System Leakage Analysis Checklist Part 1

An examination of the sealing sytem and immediate environment with the seal in place.

Seal Application: **Equipment Identification:**

Miles/Hours of Operation: **Complaint:**

Before removal, carefully inspect the seal, the shaft and the immediate area around the leakage site. Follow this checklist:

Amount of Leakage

❑ Slight ❑ Immediate area damp ❑ Heavy leakage

Source of Leakage

Check	Location	Reference Code
❑	Between shaft and seal lip	----------
❑	Between O.D. of seal and bore	B.2.5
❑	At retainer bolt holes	B.3.1
❑	At retainer gasket	B.3.2
❑	Between wear sleeve and shaft	B.3.7
❑	Through seal on assembled seal	B.3.8

Condition of Immediate Environment

❑ Seal area clean ❑ Mud or dust packed in seal area B.2.1

Wipe Immediate Area Clean and Inspect

Check	Condition	Reference Code
❑	Nicks on bore chamfer	B.1.1
❑	Seal loose in bore	B.1.2
❑	Paint spray on seal lip	B.2.2
❑	Seal cocked in bore (amount) _____	B.2.3
❑	Seal installed in wrong orientation (backwards)	B.2.4
❑	Seal case deformed	B.2.6
❑	Shaft to bore misalignment	B.3.5

Rotate Shaft if Possible Check for Radial & Axial Play

❑	Excessive shaft end play (amount) _____	B.3.3
❑	Excessive shaft runout (amount) _____	B.3.4

Note: If location of leakage cannot be confirmed at this point, either introduce ultraviolet dye into the sump or spray area with white powder, operate for 15 minutes and check for leakage with ultraviolet or regular light.

When above analysis is complete, mark the seal at the 12 o'clock position and carefully remove from the application.

❑	Oil sample obtained	B.3.6

Completed By: _____ Date: