

SOP E01 –Engine Dirt Entry Check



Unit: _____ **WO#:** _____ **Hour Meter:** _____
Date: _____ **Tech:** _____

Aim: Determine seal and breather condition and identify source/s of dirt or water entry. (Sample and record all oil changes)

Step	Items to Assess	Required Actions and/or Documentation
1	Do pre-inspection before wash: <ul style="list-style-type: none"> ▪ Wet spots or dirt build-up ▪ Dirt trace marks on intake system at boot connections and gaskets or seals. ▪ Exhaust leaks that could get to intake side. ▪ General over all engine inspection for signs of dirt and/or water entry 	Record all findings and actions taken.
2	Wash machine	
3	Remove air filter cover and check for: <ul style="list-style-type: none"> ▪ Correct filter fit ▪ Matching of filters ▪ Cracks in filter housing ▪ Loose or missing bolts ▪ Damaged gaskets ▪ Dirt entry around air filter seals (dirt traces) ▪ Correct fit of cover 	Repair or replace as required. Record all findings and actions taken.
4	Check intake system: <ul style="list-style-type: none"> ▪ Cracked/broken/missing filter restriction indicator ▪ Loose clamps and/or leaking seals at joints and boots ▪ Broken/cracked ether injection tube 	Repair or replace as required. Record all findings and actions taken.
5	If signs of dirt entry are found during the above inspections: <ul style="list-style-type: none"> ▪ Remove turbo intake tube and check for signs of dirt damage. ▪ Check Turbo oil return line for signs of leakage. 	Supervisor / Tech to determine if major repairs and/or replacement are required. If required, generate work order. Record work order number.
6	Check breather caps for: <ul style="list-style-type: none"> ▪ Damage and proper installation ▪ Rubber o-ring gaskets and clamps. 	Repair or replace as required. Record all findings and actions taken.