H-E PARTS INTERNATIONAL
ENGINE SOLUTIONS

Engine warranty Registration Check Sheet

Information required for warranty registration (Fully fill out all light blue shaded boxes)
Follow Cummins® installation procedures and initial each box after task completion.
Return completed form to H-E Parts Engine Solutions by fax to (206-621-8805) or email (berger@h-eparts.com)

Engine Model: _____ Engine Serial No. _____ Installation Date: _____
Equipment Unit No. _____ Unit Serial No. _____ Meter Hrs.: _____
H-E Parts B&G Machine Job No. _____ Site _____ ECM Clock Hrs. _____
Total Fuel Burn: _____
ECM FLASH FILE PART # _____

Air Inlet System

- [ ] A Replace all rubber boots and clamps with new
- [ ] B Inspect inlet piping, (holes, cracks, chafing, welds, and loose brackets) and repair or replace as necessary
- [ ] C Wipe out inside of piping with solvent and dry with clean rags
- [ ] D Tighten all clamps, then re-check all for proper torque.
- [ ] E Install new primary and secondary air filters

Electrical System

- [ ] A Inspect harness pin connector on the machine side for problems
- [ ] B Inspect machine harness for problems, (bare, frayed, broken, or disconnected wires) and repair as necessary
- [ ] C Connect engine harness and power up E.T. Check for current codes and correct all sensor problems if applicable
- [ ] D Program machine serial number into ECM.

Hydraulic Pump System

- [ ] A Inspect and repair all problems with hydraulic system before engine installation
- [ ] B Install new O-rings on all cooler connections to engine
- [ ] C Install new U-joints and bolts on both ends of the pump drive shaft and torque to spec. Check PTO thrust end play

Torque Converter

- [ ] A Review converter records for replacement (**CAUTION: A bad converter can cause engine damage and or poor performance)**
- [ ] B Check and record crankshaft endplay before and after mounting Torque Converter. Before _____ After _____
- [ ] C Replace front drive shaft U-joint and bolts with new

Exhaust System

- [ ] A Replace exhaust clamps to engine with new
- [ ] B Replace expansion rings with new if applicable

Fuel System

- [ ] A Replace machine fuel supply hoses with new
- [ ] B Replace any remote mount machine fuel filters with new
- [ ] C Drain fuel from tanks to get rid of sediment and water. Flush tank if necessary.
- [ ] D Fill fuel tanks / Pressurize system and check for leaks (machine and engine)

Cooling System

- [ ] A Service radiator (Clean, pressure check, or replace cores)
- [ ] B Replace all radiator hoses and clamps with new
- [ ] C Fill engine with coolant, and purge all air from system
- [ ] D Check for leaks (Machine and Engine)
- [ ] E Grease fan hub, and tensioner pulley zerk fittings until full

Oil system

- [ ] A Charge engine with oil through filter connection to pre-lube engine while filling
- [ ] B Fill engine to "ENGINE IDLING" side of dip stick
- [ ] C Recheck oil level after start up and top off. It will be low.

Initial Start-up

- [ ] A Pump fuel pressure up to 50 PSI
- [ ] B Start engine and assure that oil pressure builds immediately. (If not shut off engine immediately, and investigate)
- [ ] C Run for 1 minute and use ground level shut off to check operation.

Follow-up Start-up

- [ ] A Start engine
- [ ] B Allow engine to warm to operating temperature at low idle
- [ ] C Check oil level and top off
- [ ] D Re-check to assure that all air is bled out of cooling system and level is topped off
- [ ] E Correct any sensor codes
- [ ] F Assure that all functions of E.T. are reading correctly
- [ ] G Apply brakes and stall engine to check stall speed. (compare against spec.)

Generator Install Only

- [ ] A New frame isolators installed and torqued to manufacturers specifications
- [ ] B Generator re-aligned / coupler flange checked: 12 o'clock _____ 3 o'clock _____ 6 o'clock _____ 9 o'clock _____
- [ ] C Generator jacking screws backed off
- [ ] D Generator mount bolts torqued to spec.
- [ ] E Generator coupler bolts torqued
- [ ] F End bell housing to flywheel housing bolts torqued to spec.
- [ ] G Crankshaft deflection checked: _____
- [ ] H Crankshaft end thrust measured: _____
- [ ] I Vibration tested OK

Signature	Print Name	**Date**