Engine Warranty Registration Check Sheet

Required for warranty registration

Follow manufacturer installation procedures and check the following:

Initial each box after task completion and e-mail completed form to wboerema@aisequip.com

ENGINE MODEL: _____ Invoice #: _____ ENGINE SERIAL No. _____

EQUIPMENT UNIT No. _____ UNIT SERIAL No. _____ INSTALLATION DATE _____

AIS W.O. No. _____ SITE: _____ METER HRS: _____

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 as necessary
- ☐ C. Wipe out inside of piping with solvent and dry with clean rags
- ☐ D. 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 active code and correct all sensor problems if applicable
- ☐ D. Program machine serial number into ECM. Send print out to AIS Engines for records if possible.

HYDRAULIC PUMP DRIVE

- ☐ 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.

TORQUE CONVERTER

- ☐ A. Review converter records for replacement (**CAUTION:** A bad converter can cause severe engine damage)
- ☐ B. Check and record crankshaft endplay before and after mounting driven to bellhousing 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
- ☐ C. Check muffler for being plugged
- ☐ D. Make sure water cannot enter exhaust system

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
- [ ] D. Fill fuel tanks/Pressurize

COOLING SYSTEM

- [ ] A. Service radiator at a reputable shop (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 with OEM recommended coolant
- [ ] D. Check for leaks (Machine and Engine)
- [ ] E. Grease fan hub, and tensioner pully zerk fittings until full
- [ ] F. All new belts

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

FOR NON-COMPLETE ENGINES (LONG BLOCKS)

- [ ] A. Must replace oil cooler with new.
- [ ] B. Must replace oil pump with new.

INITIAL START UP

- [ ] A. Pump fuel pressure up to 50 PSI
- [ ] B. Start engine and assure that oil pressure builds. (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

- [ ] 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. Download and print out ECM Hours, Fuel Burn, and fault codes. E-mail wboerema@aisequip.com
- [ ] H. Apply brakes and stall engine to check stall speed. (Compare against spec.)
- [ ] I. Release engine for work

Signature:_____Print Name:_____