



# Mitsubishi Engine North America

## Procedures for returning a PRESERVED engine back to service after long-term storage.

After an engine has been stored in compliance with the Mitsubishi Engine North America guidelines for long-term storage as found in the pamphlet "Procedures for preparation of engines for long term storage", the following procedure must be observed prior to returning the engine back to service

- 1.1 Remove the engine dust or weather protection cover.
- 1.2 Remove the polyethylene sheet from the starter motor(s) and alternator(s)
- 1.3 Fill up the coolant in the engine corresponding to the "Operation and Maintenance Manual" for the correct engine model.
- 1.4 Inspect the engine outside for eventual rust.
- 1.5 Thoroughly clean the pulley groves.
- 1.6 Reinstall all the "V" belts on the engine and adjust the belt tension.
- 1.7 Drain the corrosion inhibiting oil from the engine. Fill the engine with the appropriate lubricating oil (to select the appropriate lubricating oil, consult the "Operation and Maintenance Manual" for the correct engine).
- 1.8 Remove the rocker arm covers and lubricate the valve mechanism.
- 1.9 Remove the fuel filters and the oil filters and replace them by new ones.
- 1.10 Reestablish the lubricating oil film in the bearings and bushings by use of an external lubricating oil prime pump.
- 1.11 Drain the fuel tank and fill her with diesel fuel.
- 1.12 Prime the fuel system.
- 1.13 Remove the polyethylene coverage from the engine air-intake and exhaust
- 1.14 Visually inspect the exterior of the engine for items such as loose or missing bolts, check for missing parts. Look under and around the engine for fuel, oil or coolant leaks.
- 1.15 Hook-up the well charged battery(ies)
- 1.16 Crank the engine three times for 10 seconds each time, at intervals of one minute.  
**Important:** The 10-second engine cranks have to be done with the fuel supply in the off position. Make sure the oil pressure rises properly
- 1.17 Start the engine.
- 1.18 Allow the engine to warm up while running at low idle.
- 1.19 While the engine is running, check again for fuel, oil and coolant leaks
- 1.20 When the engine has run long enough to warm up, bring it up to operating speed and apply a load.