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Yanmar Diesel Engine

Strip down rebuild course - 4 Days



Learn how to use & service the Yanmar L60AE-D diesel engine.

Then strip it down, inspect, rebuild, adjust and test it to manufacturer specifications

This new course introduced by popular demand from DITC students to teach the skills necessary to service and repair the small diesel engines that power many of the portable compressors used worldwide,

The Yanmar LA60AE-D engine is used to power the USA GSA Bauer C-D/DV/NAVY unit.

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Why complete this training?

There are more than 50,000 high pressure breathing air compressors used worldwide in Navy, Army Air force, fire departments, rescue teams, coastguards, disaster response teams, commercial and recreational diving. Many of these are portable units powered by small diesel engines.

This large installed user base generates an ongoing requirement for technicians with the specialist skills to service this equipment.

Diesel Engine Academic Development Work (day 1)

- Basic 4-stroke engine operating principals.
- History of diesel engine development
- Adiabatic compression ignition principles
- Fuel injectors – principals of operation
- Fuel pump – principals of operation
- Oil pumps – principals of operation
- Spare part ordering
- Management of in house spares inventory systems.
- Manufacturer's product reviews.
- Safety issues – diesel injection, run away, starting injuries, exhaust gases, PPE
- THEORY EXAM.

Diesel engine workshop sessions (days 2, 3, 4)

- Hands on user strip down/rebuild session
- Removal of intake and exhaust components.
- Recoil starter system removal, repair and replacement techniques
- Fuel supply system strip down, cleaning and replacement
- Cylinder head strip down, inspection, rebuild
- Crankcase, crankshaft and camshafts strip down, inspection & rebuild
- Bearings. Removal inspection and replacement techniques
- Piston rings Removal, inspection & replacement techniques
- Barrel inspection & honing techniques.
- Inlet & exhaust valve inspection, removal and replacement. Lapping techniques.
- Fuel injector strip down, inspection, cleaning methods, re-assembly and adjustment technique
- Fuel pump strip down, inspection, cleaning, re-assembly
- Crankshaft, camshaft, fuel pump – reassembly critical points.
- Running adjustments. Use of tachometer
- Power output measurements using Prony brake

Includes:

- Small Diesel Engine technician training certificate establishing the legal competent person status of the technician to work on diesel engines of this type
- All student training Manuals used during the course + online access to the ScubaEngineer.com technician database.
- All spare parts & consumables used during the course.
- Free Tea/Coffee and high speed Wi-Fi internet access at the training center.

Pre-requisites:

- None

Key Benefits

- Enables the diesel owner to carry out timely repair / maintenance to their own diesel engine when operating in remote locations.
- Prevents costly damage to the diesel engine and operator injury due to lack of training or proper maintenance