CATERPILLAR®

Marine Engine Application and Installation Guide

- **Serviceability Considerations**
  - Periodic Maintenance
  - Overhead Clearance for Disassembly of Engine

Lubrication and Maintenance Charts

These recommendations vary depending on the model and rating selected. Go to the Operations & Maintenance Manual or the **Marine Data Wizard** to find Maintenance Interval Schedules and Fluid Recommendations based on the model and rating you have selected.

Overhead Clearance for Disassembly of Engine

General Information

Well-designed engine compartments will include features that contribute to the serviceability of the machinery. For example:

- Overhead lifting equipment for engine subassemblies that may be heavier than one man can safely lift by hand, particularly in the often close quarters of the machinery space.
- Hatches located directly above engines for simplified removal and reinstallation during overhaul.
- Outlets for electricity and/or compressed air to drive high production mechanic's tools.

Access to those points on the engine that require periodic preventive maintenance such as:

- lube oil filters and drain plug — engine and transmission
- fuel and air filters
- sea water and jacket water pump
- turbochargers
- zinc plugs
- heat exchanger — for core cleaning

Overhead Clearance for Connecting Rods and Piston Removal

The following tables give the height above the crankshaft centerline requirements to allow removal of a connecting rod and piston from the engines. This information is offered to assist designers who wish to provide adequate overhead clearance for piston/connecting rod removal.

In-Line Engines	
Engine	**Height Above Crankshaft Center**
3126, 3126B, C7	626 mm (24.6 in.)
3196, C9	635 mm (25 in.)
3406C, 3406E, C12	786 mm (30.9 in.)

Vee Engines	
Engine	**Height Above Crankshaft Center**
3408C, 3412C&E, C30, C32	693 mm (27.28 in.)
3508C, 3512C, 3516C	969 mm (38.15 in.)