

- M1 Checking
- M2 Cleaning
- M3 Changing
- M4 Changing
- M5 Checking/Setting
- M6 Trial Run
- A1 Changing
- Cleaning
- A2 Changing

Diesel Engine Checklist & Maintenance Schedule

Service based on operating hours

After ... hours of operation M1 M2 M3 M4 M5 M6

After ... hours of operation	M1	M2	M3	M4	M5	M6
20-60 or after commissioning	X	X				X
200	X	X	X			X
400*	X	X	X	X	X	X
600	X	X	X			X
800	X	X	X	X	X	X
1000	X	X	X			X
1200	X	X	X	X		X
1400	X	X	X			X
1600	X	X	X	X	X	X
1800	X	X	X			X
2000	X	X	X	X		X
2200	X	X	X			X
2400	X	X	X	X	X	X
2600	X	X	X			X
2800	X	X	X	X		X
3000	X	X	X			X
3200	X	X	X	X	X	X
3400	X	X	X			X
3600	X	X	X	X		X
3800	X	X	X			X
4000	X	X	X	X	X	X

* *Retighten cylinder head bolts*

The following work is necessary at chronological intervals regardless of hours clocked:

Interval M1 M2 M3 M4 A1 A2 M6

Interval M1 M2 M3 M4 A1 A2 M6

Yearly X X X X X

2 Years X X

4 years X X

Service Types

M1 Checking

- Engine exterior for loss of oil and coolant *1)
- Coolant level
- Concentration of antifreeze / anti-corrosion agents
- Engine oil level/gearbox oil level *1)
- Engine alarms
- Functioning of instruments *1)
- Coolant hoses for leaks
- Fuel lines for leaks
- V-belt tension, retightening, if necessary, V-belts
- Condition of impeller
- Water hose clamps, pipe connections and bolts for security, retightening, if necessary
- Alignment of the shaft system (In the event of abnormal vibrations, since the elastic engine mounts may have settled.)

M2 Cleaning

- Fuel pre-filter
- Draining water from the auxiliary fuel filter

M3 Changing

- Fuel filter cartridges *3)

M4 Changing

- Engine oil
- Engine oil filter cartridge
- Filter element of crankcase breather
- Air filter

M5 Checking / Setting

- Valve clearance

M6 Trial Run

- Engine speed test with boat under full load *3)

A1 Changing

- Both valve caps on expansion tank

Cleaning

- Intercooler / charge-air pipes / turbocharger
- Heat exchanger (pipe cluster)

A2 Changing

- Coolant
- All hoses (e.g. fuel supply and return lines, gearbox oil cooler)

*1) Daily visual checks should be carried out by the captain

*2) Fuel filters will need changing more frequently if contamination is present in the fuel system

*3) Full load = Water and fuel tanks are filled, boat equipment complete, including dinghy

When the respective number of operating hours has been reached, the maintenance work M1 to M6 is to be carried out by a MAN-authorized service center.

Jobs A1 and A2 must be performed, at the intervals listed above, regardless of the operating hours.