

Yanmar Engine Operation Tips

ADDED INFORMATION for YM series from my engine plaque:

Idle 850–950 RPM

Maximum continuous 3,489 RPM

Full throttle (in gear) 3,025 RPM

85% power 2,570 RPM

Source: <http://psyberspace.com.au/yanmar/anatomy.htm>

Even with freshwater cooled engines, that operate at higher temperatures, the oil retains the byproducts of combustion and always looks black.

The best way to help rid of oil contaminants is to rev up the engine for a half a minute (over 3000 RPM), out of gear, before moving the level back to idle and shutting down. Do this at the last stop of the day if stopping and starting a lot. **Also run the engine at 3,000 RPM or over for 10 minutes or more for every 5 hours of slower running (2,000 – 2,500 RPM is very slow). The engine will prefer 2,800 RPM or thereabouts.**

Do not operate for extended periods of time below 80% maximum RPM. The cylinder bores will glaze, causing an increase in oil consumption and blue smoke. Don't 'baby' your diesel engine!

Tip:

If you've ever forgotten to turn on the raw water supply, before starting the engine – put the engine key on the sea cock every time you turn it off.

For engines with a tachometer, run it where it sings best. If the ship is shaking and growling, alter the RPM. If the engine vibrates unpleasantly at a particular RPM don't operate it in that RPM band or it will eventual break!

Yanmar tachometers usually read about 100 RPM to high at maximum RPM (and they aren't adjustable), so don't be pedantic about lining up the needle exactly. You may note that the maximum RPM of your engine under load is higher than the figure I have given below.

USE THE MAXIMUM RPM IF YOU ARE IN TROUBLE, don't be frightened, the engine will handle this for an hour, provided it has been installed correctly. Once out of trouble, reduce RPM to 85%, for better fuel consumption and longer engine life.

IDLE RPM by Yanmar engine model:

Engine model hand-held tachometer Boat engine Tachometer (Instr. Pnl.)

GM series 825 RPM – 875 RPM

JH and JH2 775 RPM – 825 RPM

For prolonged running, a pleasure boat engine should operate at 85% of maximum continuous RPM.

Cruising RPM

GM, JH, JH2 series about 2,900 RPM