

Bukh VGT Ratings

Ratings

Ratings are based on ISO 8665 conditions of 100 kPa (29.612 in Hg) and 25°C (77°F) and 30% relative humidity. Rated power represents the net power available at crankshaft. Fuel consumption has a tolerance of +7% and is based on fuel of 35° API gravity at 16°C (60°F) having an LHV of 42,780 KJ/KG (18,390 BTU/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lb/US gal) with LTA when available.

	Rating	*TBO	**TBM	Annual operating
VGT 350	Medium duty	5000 hrs	100 hrs	2000 hrs
VGT 400	Light duty	5000 hrs	100 hrs	1000 hrs
VGT 450	Light duty	3500 hrs	100 hrs	1000 hrs
VGT 500	HSC	2500 hrs	100 hrs	700 hrs

L - Light Duty Commercial

For commercial vessels or craft with high demands on speed and acceleration, planning or semi-planning hulls in cyclical operation. Typical boats: Fast patrol, rescue, police, light fishing, fast passenger and taxi boats etc. Full power could be utilized maximum 2 h per 12 h operation period. Between full load periods, engine speed should be reduced at least 10 % from the obtained full load engine speed.

M - Medium Duty Commercial

For commercial vessels with semiplaning or displacement hulls in cyclical operation. Typical boats: Most patrol and pilot boats, coastal fishing boats in cyclical operation, light trawlers, passenger boats and coastal freighters with shorter trips. Full power could be utilized max 4 h per 12 h operation period. Between full load operation periods, engine speed should be reduced at least 10 % from the obtained full load engine speed.

C - Continuous Duty Commercial

For vessels operating at rated load and rated speed up to 100% of the time without interruption or load cycling (80% to 100% load factor (1)). This is a SPE Special Purpose Engine option, please contact factory for information.

Generator Drive Engines

Engines with this rating are available for an unlimited number of hours per year in variable load applications. Variable load is not to exceed 70 percentage average of the rated power during any operating period of 250 hrs. Total operating time at 100 per cent prime power shall not exceed 500 hrs per year.

VGT500 HSC High Speed craft Rating

VGT500 is rated HSC for planning vessels, typically 35-60+ knots. HSC rating is for vessels operating at rated speed up to 5% of the time. Typical applications could include but not limited to vessels such as pleasure craft, high speed interceptors and other high speed governmental applications. Typical operation ranges from 250 to 700 hrs per year.

Further limiting specifications on HSC rating:

- Limitation in full power operation, 0,5 hrs per 10 hrs operation
- Maximum running hours per year is 700 hrs.
- Recommended maximum running hours per day is 10 hrs
- Load factor (1) below 35 per cent (%).

(1) Load factor is the actual fuel burned over a period of time divided by the full-power fuel consumption for the same period of time. For example, if an engine burns 160 litres of fuel during an 8-hour operation, and the full-power fuel consumption is 60 litres per hours, the load factor is 160 litres/(60 litres per hour x 8 hours)=33,3%.

*TBO = Time between overhaul

**TBM =Time between maintenance (service) Extended TBM available as options.

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