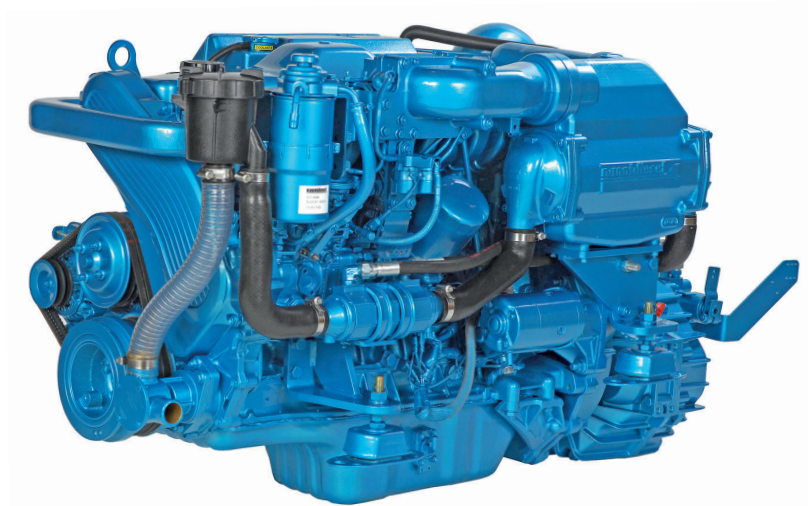


6.420TDI

SPECIFICATIONS



Power at crankshaft	235.5 kW [320 hp]
Displacement	4.2 l [254 in³]
Configuration	6 cylinders in line
Operation type	4 strokes Diesel
Bore & Stroke	94 x 100 mm [3.7 x 3.94 in]
Compression ratio	15.7 : 1
Rated speed	3600 rpm
Idling speed	700 rpm
Peak torque	804 Nm
Peak torque speed	2400 rpm

Engine base	Toyota
Fuel system	Direct injection Mechanical controlled
Air intake	Turbocharged with intercooler
Cooling	Closed cooling with heat exchanger
Max mounting angle	0° Front down 7° Front up
Alternator	12 Volt 80 Amp
Rating	M6
Emission compliance	BSO2
Dry weight with TTM50A	469 kg [1034 lbs]

6.420TDI

235.5 kW [320 hp] at 3600 rpm

TECHNICAL DESCRIPTION

ENGINE BLOCK

- 6 Cylinders in line
- 4 Valves per cylinder
- Water-cooled exhaust manifold
- Balancing shafts

FUEL SYSTEM

- Direct injection, mechanical controlled
- Mechanically primed fuel filter

LUBRICATION SYSTEM

- Replaceable full-flow oil filter
- Oil dipstick
- Oil cooler

COOLING SYSTEM

- Closed cooling with heat exchanger
- Gear driven self-priming raw water pump
- Coolant circulating pump
- Water cooled exhaust elbow

ELECTRICAL SYSTEM & INSTRUMENTATION

- 12 V / 80 A Alternator
- 12 V starter motor
- Complete instrumentation including key switch and alarms
- Extension cable harness with plug-and-play

AIR INTAKE

- Water-cooled turbocharger
- Intercooler

OTHER FEATURES

- Flexible engine mounting

OPTIONAL EQUIPMENTS & ACCESSORIES

- Complete marine propulsion systems
- Marine transmission adaptation kits
- Throttle and shift controls
- Additional instrumentation, Flying bridge extension harness
- Water boiler systems
- Stuffing box connections
- Complete exhaust systems
- Trolling valve
- 12V / 120A alternator
- Two pole electrical system

RATINGS

- Up to 500 annual operating hours
- Load factor up to 35%
- Full power for no more than 30 minutes out of each 8 hours of operation. The remaining time must be at, or below cruising speed

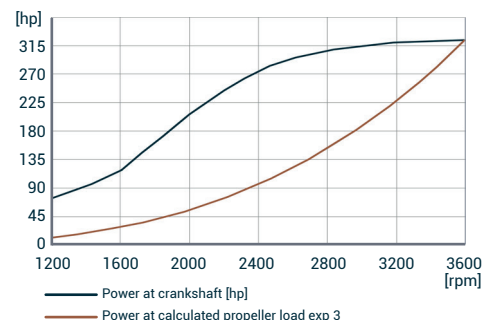
TRANSMISSIONS

SHAFT LINE

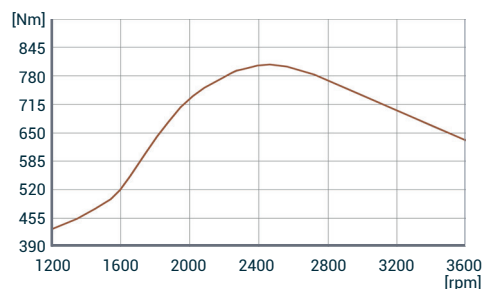
- TTM50A
- ZF220PL
- ZF63 - ZF63A - ZF63IV
- ZF80A
- Contact your Nanni representative for more details and availability about transmissions types and models range.

PERFORMANCE CURVES

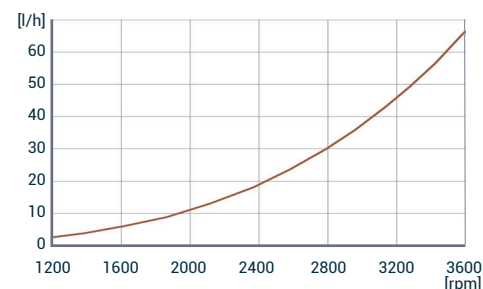
POWER AT CRANKSHAFT



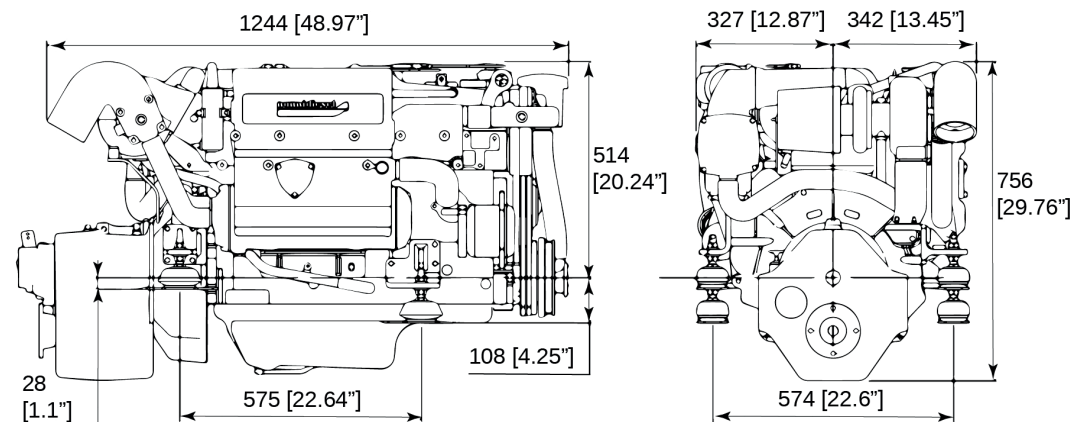
TORQUE AT CRANKSHAFT



FUEL CONSUMPTION



DIMENSIONS WITH ZF63



NANNI INDUSTRIES S.A.S.

11, Avenue Mariotte - Zone Industrielle
33260 La Teste - France
Tel: +33 (0)5 56 22 30 60
Fax: +33 (0)5 56 22 30 79

Technical data according to ISO 8665. This document is not contractual. Nanni reserves the right to modify any of the characteristics stated in this document without notice, in a constant effort to improve the quality of its products. Images and illustrations may show non standard equipments. All combination of equipment & accessory are not available.

DGBXXC01018