

PROPULSION ENGINE

6.420TDI

SPECIFICATIONS



Power at crankshaft	235.5 kW [320 hp]	Engine base	Toyota
Displacement	4.2 l [254 in ³]	Fuel system	Direct injection Mechanical controlled
Configuration	6 cylinders in line	Air intake	Turbocharged with intercooler
Operation type	4 strokes Diesel	Cooling	Closed cooling with heat exchanger
Bore & Stroke	94 x 100 mm [3.7 x 3.94 in]	Max mounting angle	0° Front down 7° Front up
Compression ratio	15.7 : 1	Alternator	12 Volt 80 Amp
Rated speed	3600 rpm	Rating	M6
Idling speed	700 rpm	Emission compliance	BSO2
Peak torque	804 Nm	Dry weight with TTM50A	469 kg [1034 lbs]
Peak torque speed	2400 rpm		



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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

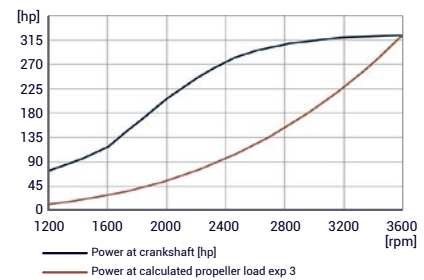
TRANSMISSIONS

SHAFT LINE

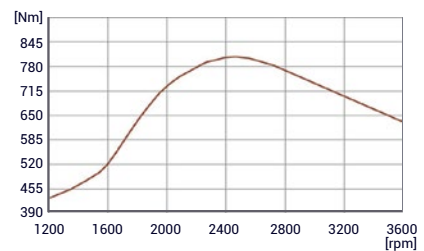
- TTM50A
- ZF220PL
- ZF63 - ZF63A - ZF63IV
- ZF80A
- Contact your Nanni representative for more details and availability about transmissions types and models range.

PERFORMANCE CURVES

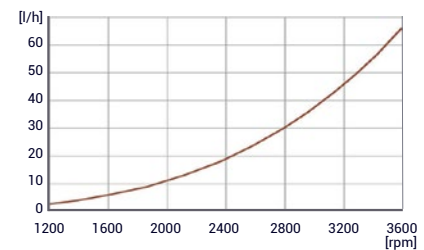
POWER AT CRANKSHAFT



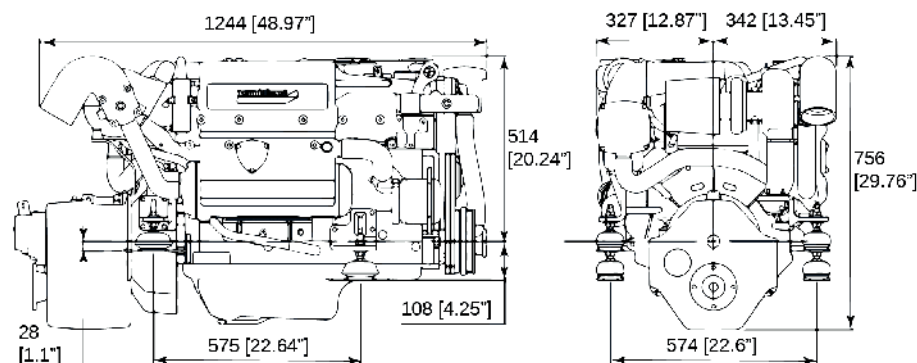
TORQUE AT CRANKSHAFT



FUEL CONSUMPTION



DIMENSIONS WITH ZF63



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