

T4.165 engine 121.5 kW (165 hp) at 3400 rpm

Proven Reliability from Experience

The T4.165 is developed based on the new engines with Common Rail direct fuel injection which have been used and proven reliable on the 4x4 Land Cruiser. The T4.165 is equipped with the latest innovations put in place by Toyota in terms of clean diesel engines.

Dynamic and responsive

Handling your boat equipped with this engine is a breeze. High torque at low rpm ensures a faster hole-shot and stunning acceleration. The low rated speed of 3400 enables you to cruise at comfortably low rpm's, reducing sound levels and fuel consumption. With this engine you can count on the most dynamic motorization with plenty of power reserve for all situations.

Ease of in

Exhaust (mm/in) Fuel (mm/in)

Sea Water (mm/in)

Connections diameter

Technica

Equipped with a hydraulic gearbox, the engine handles smooth and quiet while manoeuvring. This transmission can optionally be equipped with a Trolling Valve, which will allow you to adapt the boat speed to your fishing needs.

Common Rail Technology

This engine employs a Common Rail Fuel Injection system which stands for high torque and great fuel efficiency. The fuel rail maintains the fuel under constant, high pressure at all times allowing very responsive and accurate fuel injection under any condition.

The common rail system combined with 4-valve cylinder heads and two balancing shafts results in unprecedented smoothness providing very quiet and virtually vibrationfree propulsion comfort.

Ease of installation		Protecting the environment		
The T4.165 mounting pattern is iden the previous generation of 4 cylinder engines yet it is designed to fit into the est engine compartments.	Toyota	The engine complies with the most stringer emission regulations in the world : EU-RCE US-EPA, BSO.		
Technical specifications				
Engine base	Toyota			
Rated power (kW/hp)*	121.5 / 1	65		
Rated rpm (rpm)*	3400			
Displacement (cm ³ /in ³)	2982 / 181.97			
Number of cylinders	4 in line			
Bore and stroke (mm/in)	96 x 103 / 3.77 x 4.05			
Compression ratio	17.9:1			
Combustion system	Common Rail (Direct)			
Intake	Turbo compressor & Intercooler			
Cooling	Closed cooling with heat exchanger			
El. equipment / Alternator	12V / 100A			
Instrument panel	C4-T			
Transmission	Mechani	cal or hydraulic gearbox		
Engine Max Install. Angle	7° (dynamic)			
Certifications	US EPA, BSO, EU-RCD			
Dry weight with TTM40A (kg/lb)	362 / 798			

90/3.54

10/0.39

38 / 1.49

Main characteristics Toyota base engine

- Common Rail injection system
- Turbo & Intercooler
- Big displacement
- High torque

Available transmissions

- ZF25A (hydraulic) 8° angle
- ZF45A (hydraulic) 8° angle
- ZF63IV (hydraulic) 12° angle
- TTMC5A (mechanical) 7° angle
- TTM40A (hydraulic) 8° angle

Applications

- Semi-planning hulls
- Planning hulls

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	SSORIES
by Nanni Diesel	

* At engine flywheel, according to ISO 8665-1

The specifications are defined for marine pleasure use. For every other applications, please consult us. Specifications are subject to hpange without notice. Non-binding document - 03102012-ENG-D



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Standard equipment

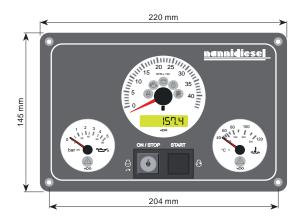
- Exhaust elbow
- Closed cooling with heat exchanger
- 4 meter electrical harness
- Fuel filter with water detector
- Oil filter
- Angled transmission 8°
- Owner's Manual
- · Sea water pump
- Coolant circulating pump Fuel feed pump
- Control cables mounting points
- Integrated oil and fuel cooler
- Engine flexible mounts
- ٠ Electrical system 12V
- Thermostat

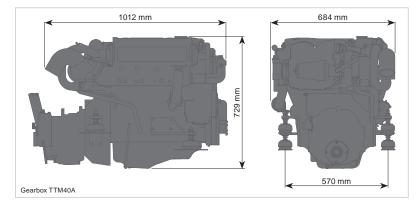
Optional equipment

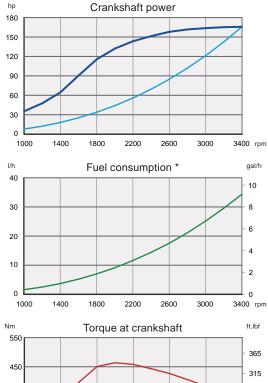
- Additional alternators
- Trolling valve
- PTO Pulley •
- A4 panel
- Separated instruments
- Sea water hoses
- Fuel hoses
- Sea water filter
- Flexible coupling
- Exhaust system

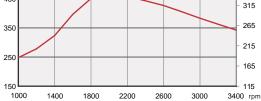
C4-T panel

- Ignition key / Start button
- Tachometer and hour meter / Voltmeter
- Battery charge warning light
- Engine control warning light
- Turbo warning light •
- Preheating warning light
- Water in fuel filter warning light
- Oil pressure indicator
- Oil pressure warning light
- Coolant temperature indicator
- Preheating warning light









Crankshaft power (hp) Power calculated at propeller exp 2.5

*Fuel consumption calculated at propeller load exp 2.5

	Your dealer		
TAS			

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