

# Diesel Engines Series 4000

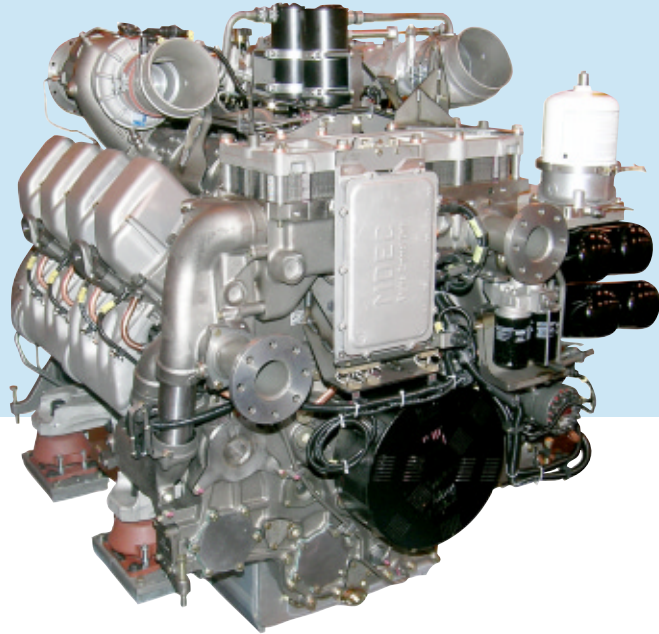
for Marine Applications

Continuous 1A

880 - kW

1197 - mhp

1180 - bhp



## Compliant

with MARPOL 73/78 (IMO)  
Annex VI NO<sub>x</sub> Limits

## Engine Specifications

Version	8V4000M60
Displacement	32.5 liters, (1983 cu in)
Bore and Stroke	165 mm x 190 mm (6.50 in x 7.50in)
Description	Charge air cooled turbocharged
Governor	MDEC
Port Model	T0827M21
Starboard Model	T0827M20

## Typical applications

- Crew boats
- Water taxis
- Pilot boats
- Ferry boats
- Lobster boats
- Part fish boats
- Charter sport fisherman
- Patrol boats

## Standard Power Rating

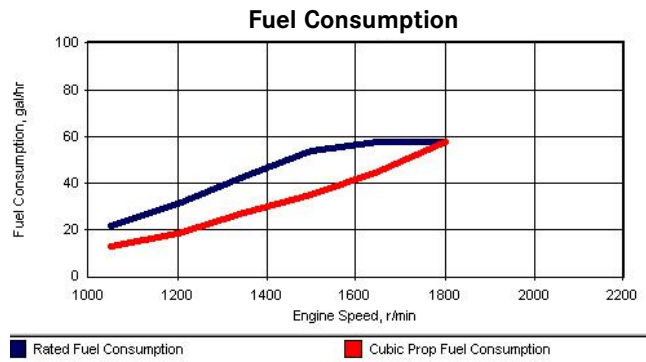
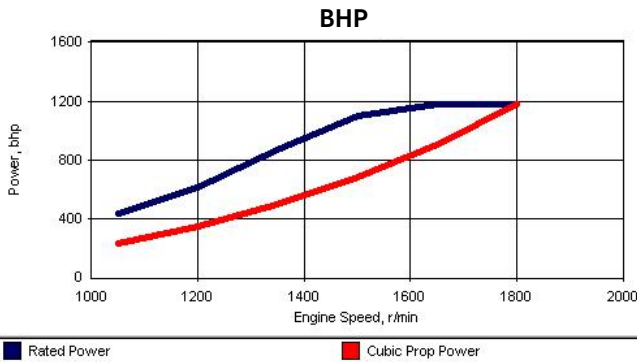
Air Temp. 25 °C	kW	mhp	bhp	rpm
Sea Water Temp. 25 °C				
Rated Power	880	1197	1150	1800
Rating Conditions	ISO 3046			

## Standard Boat Profile

100% Power, 75% Time  
<15% Power, 25% Time



DaimlerChrysler Off-Highway



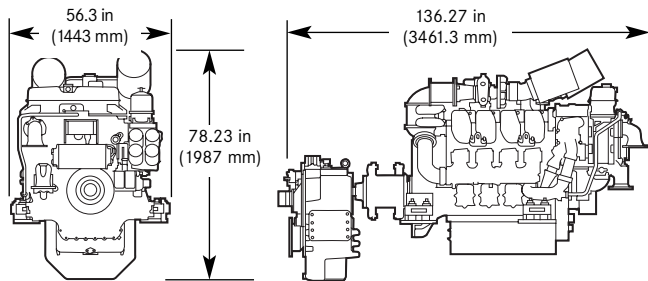
Power output guaranteed within +2/-0% at ISO 3046 conditions:  
 77°F (25°C) air inlet temperature  
 77°F (25°C) fuel temperature  
 .847 specific gravity at 77°F (25°C)  
 77°F (25°C) raw water temperature  
 29.31 in. Hg (99 kPa) dry barometer

Performance shown includes:  
 Usage of diesel fuel with a minimum LHV 42,800 kJ/kg (18,390 Btu/lb) per DIN EN 590  
 Air intake restriction: 10 in. H<sub>2</sub>O (2.5kPa)  
 Exhaust back pressure: 15 in. H<sub>2</sub>O (3.7kPa)

### Rating Definition - Continuous

The marine continuous rating applies to medium or low speed boats (normally of the displacement type) which operate up to 24 hours a day, 365 days a year, at high load factors. Typical examples include tugs, towboats, offshore supply boats, fishing trawlers and druggers.

### Dimensional Information



Dry Weight w/o Marine Gear: 10,650 lbs. (4831 kg)

All dimensions are approximate. For complete dimensional information, refer to installation drawing provided by your authorized Detroit Diesel Corporation representative. Marine transmission shown represents standard option marine gear.

### Standard Equipment

**Main Engines** - Sequential turbocharger and watercooled exhaust components; flywheel housing size SAE #00

**Fuel System** - Electronic common rail direct injection system; duplex secondary fuel filters mounted on front of engine; jacketed high pressure lines

**Engine Oil System** - Duplex oil filters mounted on engine with diverter valve; centrifugal bypass filter

**Engine Cooling System** - Keel cooled with expansion tank and separate circuit charge air cooling

**Air Inlet System** - Direct mounted turbochargers

**Electrical** - Starter: 24V, 2-pole isolated ground; Alternator: 28V/120 amp, 2-pole isolated ground

**Engine Mounting** - Engine mounts with isolators

**Exhaust Connection System** - (2) Horizontal dry outlet flanges

**Marine Gear** - Vertical offset electronic shift marine gear; remote connected with torsional coupling and gear oil cooler

### Optional Equipment

**Starter** - Air starter

**Exhaust Connection System** -

(2) Vertical dry flange elbows

(2) Bellows

**Type PTO Options** -

Radial drive off front crank pulley Axial drive off front crank hub

**Transmission Accessory Options** -

Companion Flange, PTO - Live or clutchable

**Engine Cooling System** - Titanium plate modular heat exchanger system with integral fuel cooler; gear driven self-priming raw water pump with 5" inlet and 5" outlet of special bronze alloy



For more information contact your MTU or DDC distributor. All Detroit Diesel distributors in NAFTA are authorized MTU distributors.  
[www.mtu-online.com](http://www.mtu-online.com) / [www.detroitdiesel.com](http://www.detroitdiesel.com) / [marine@detroitdiesel.com](mailto:marine@detroitdiesel.com)