

DI13 081M. 368 kW (500 hp)

US Tier 3, IMO Tier II, CCNR II



The marine engines from Scania are based on a robust design with a strength optimised cylinder block containing wet cylinder liners that can easily be exchanged. Individual cylinder heads with 4 valves per cylinder promotes repairability and fuel economy. The engines are type approved in all major classification societies.

The engine is equipped with a Scania developed Engine Management System, EMS, in order to ensure the control of all aspects related to engine performance. The injection system is based on electronically controlled unit injectors that gives low exhaust emissions with good fuel economy and a high torque already at low revs. The engine can be fitted with many accessories such as air cleaners, PTOs, transmissions and type approved instrumentation in order to suit a variety of installations.

		Engine speed (rpm)		
	Rating	1200	1500	1800
Gross power, full load (kW)	ICFN	292	350	368
Gross power, full load (hp, metric)	ICFN	397	476	500
Gross power, propeller curve (kW)	ICFN	134	233	368
Gross power, propeller curve (hp, metric)	ICFN	182	317	500
Gross torque (Nm)	ICFN	2324	2227	1952
Spec fuel consumption. Full load (g/kWh)		197	197	205
Spec fuel consumption. 3/4 load (g/kWh)		197	199	211
Spec fuel consumption. 1/2 load (g/kWh)		204	208	226
Spec fuel consumption. Propeller curve (I/h)		32	56	90
Optimum fuel consumption (g/kWh)			194	
Heat rejection to coolant (kW)		212	247	278

ICFN – Continuous service: Rated power available 1 h/1 h. Unlimited h/year service time at a load factor of 100%

Standard equipment

- Scania Engine Management System, EMS
- Unit injectors, PDE
- Turbocharger
- Fuel pre-filter with water separator
- Fuel filter
- Oil filter, full flow
- Centrifugal oil cleaner
- · Oil cooler, integrated in block
- Oil filler, in engine block
- · Oil dipstick, in block
- Starter, 2-pole 7.0 kW
- Alternator, 2-pole 100A
- Flywheel SAE 14
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine brackets
- Protection covers
- · Closed crankcase ventilation
- · Operator's manual

Engines with heat exchanger:

- · Sea water pump
- Heat exchanger with expansion tank

Optional equipment

- Hydraulic pump
- Side-mounted PTO
- Front-mounted PTO
- Exhaust connections
- Electrical base system
- Control and instrument panels
- Accelerator position sensor
- Engine heater
- Power pack engine bracket
- Stiff rubber suspension
- Air cleaner
- · Studs in flywheel housing
- Reversible fuel filter
- Low coolant level reaction
- Variable idle speed setting
- Low and extra low oil sump
- Long oil dipstick
- · Oil level sensor
- Bilge pump

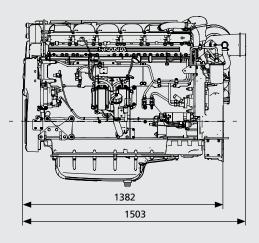


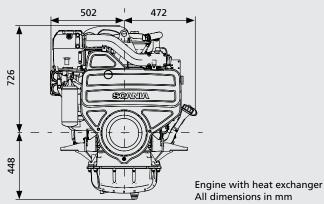
DI13 081M. 368 kW (500 hp)

US Tier 3, IMO Tier II, CCNR II

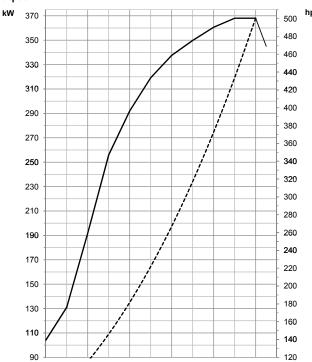
Engine description

6 in-line		
4-stroke		
1 - 5 - 3 - 6 - 2 - 4		
12.7 litres		
130 x 160 mm		
17.3:1		
1285 kg (Engine with heat exchanger) 1180 kg (Engine with keel cooling)		
8.0 m/s		
9.6 m/s		
High position alloy steel		
Steel pistons		
I-section press forgings of alloy steel		
Alloy steel with hardened and polished bearing surfaces		
28-34 dm³ (standard oil sump)		
2-pole 24V		

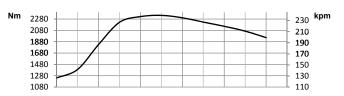




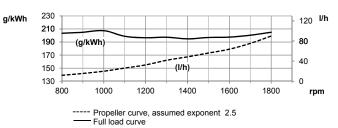
Output



Torque



Spec fuel consumption



Test conditions Air temperature +25°C. Barometric pressure 100 kPa (750 mmHg). Humidity 30 %. Diesel fuel acc. to ECE R 24 Annex 6. Density of fuel 0.840 kg/dm². Viscosity of fuel 3.0 cSt at 40°C. Energy value 42700 kJ/kg. Power test code ISO 3046. Power and fuel values +/-3%.



SE 151 87 Södertälje, Sweden Telephone +46 8 553 810 00 Telefax +46 8 553 829 93 www.scania.com engines@scania.com