



SCANIA MARINE ENGINE: IMO TIER II, US TIER 2, EU STAGE IIIA

13-LITRE ENGINE



Engine description

DI13 072M. 441 kW (600 hp)

2,300 rpm
IMO Tier II, US Tier 2, EU Stage IIIA
IFN
6 in-line
4-stroke
12.7 litres
1,285 kg (excl. oil and coolant)
39-45 litres (standard oil sump)
2-pole, 24 V DC

The marine engines from Scania are based on a robust design with a strength optimized cylinder block containing wet cylinder liners that can easily be exchanged. Individual cylinder heads with 4 valves per cylinder promotes reparability and fuel economy.

The engine is equipped with a Scania developed Engine Management System, EMS, to ensure the control of all aspects related to engine performance. The injection system is based on electronically controlled unit injectors, which gives low exhaust emissions with good fuel economy and a high torque already at low revs.

The engine can be equipped with many accessories such as air cleaners, PTOs, transmissions and instrumentation, to suit a variety of installations.

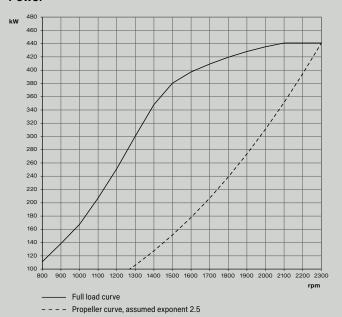
Standard equipment

- Scania Engine Management System, EMS
- Unit injectors, PDE
- Turbocharger
- Saver ring in cylinder liner
- Fuel filter and extra pre-filter with water separator
- Oil filter, full flow
- Centrifugal oil cleaner
- Oil cooler, integrated in cylinder block
- Oil filler, in cylinder block
- Deep front oil sump with ladder frame
- Oil dipstick, in cylinder blockStarter motor, 2-pole 7.0 kW
- Alternator, 2-pole 100 A
- Flywheel SAE 14
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine suspension
- Closed crankcase ventilation
- Protection covers
- Sea water pump
- Heat exchanger with expansion tank
- Sea water-cooled charge air cooler

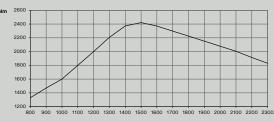
IFN – Intermittent service: Intended for intermittent use where rated power is available 1 h/3 h. Accumulated load factor must not exceed 80% of rated power. Unlimited h/year service time.

Power charts

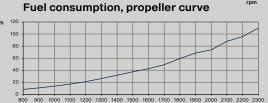
Power



Torque







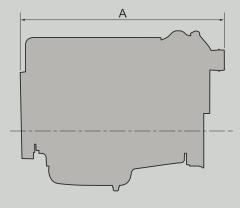
Test conditions: Air temperature 25°C. Barometric pressure 100 kPa (750 mmHg). Humidity 30%. Diesel fuel according to ECE R 24 Annex 6. Density of fuel 0.840 kg/dm³. Viscosity of fuel 3.0 cSt at 40°C. Energy value 42,700 kJ/kg. **Power test code:** ISO 3046. Power and fuel values ±3%.

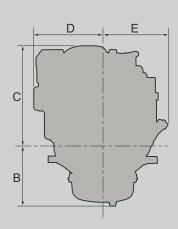
Dimensions

A Overall length	1,536
B Centre of crankshaft to bottom	448
C Centre of crankshaft to top	725
D Centre of crankshaft to right-hand side	502
E Centre of crankshaft to left-hand side	472

Engine with heat exchanger.

All dimensions indicated in mm.





Technical data

	Engine speed (rpm)				
	1,200	1,500	1,800	2,100	2,300
Gross power (kW)	251	380	419	441	441
Gross power (hp, metric)	342	517	570	600	600
Gross power, propeller curve (kW)	87	151	239	351	441
Gross power, propeller curve (hp, metric)	118	206	325	478	600
Gross torque (Nm)	2,000	2,422	2,225	2,005	1,831
Spec. fuel consumption at full load (g/kWh)	209	202	195	201	209
Spec. fuel consumption, propeller curve (I/h)	21	38	59	88	110
Heat rejection to coolant (kW)	184	250	259	297	323