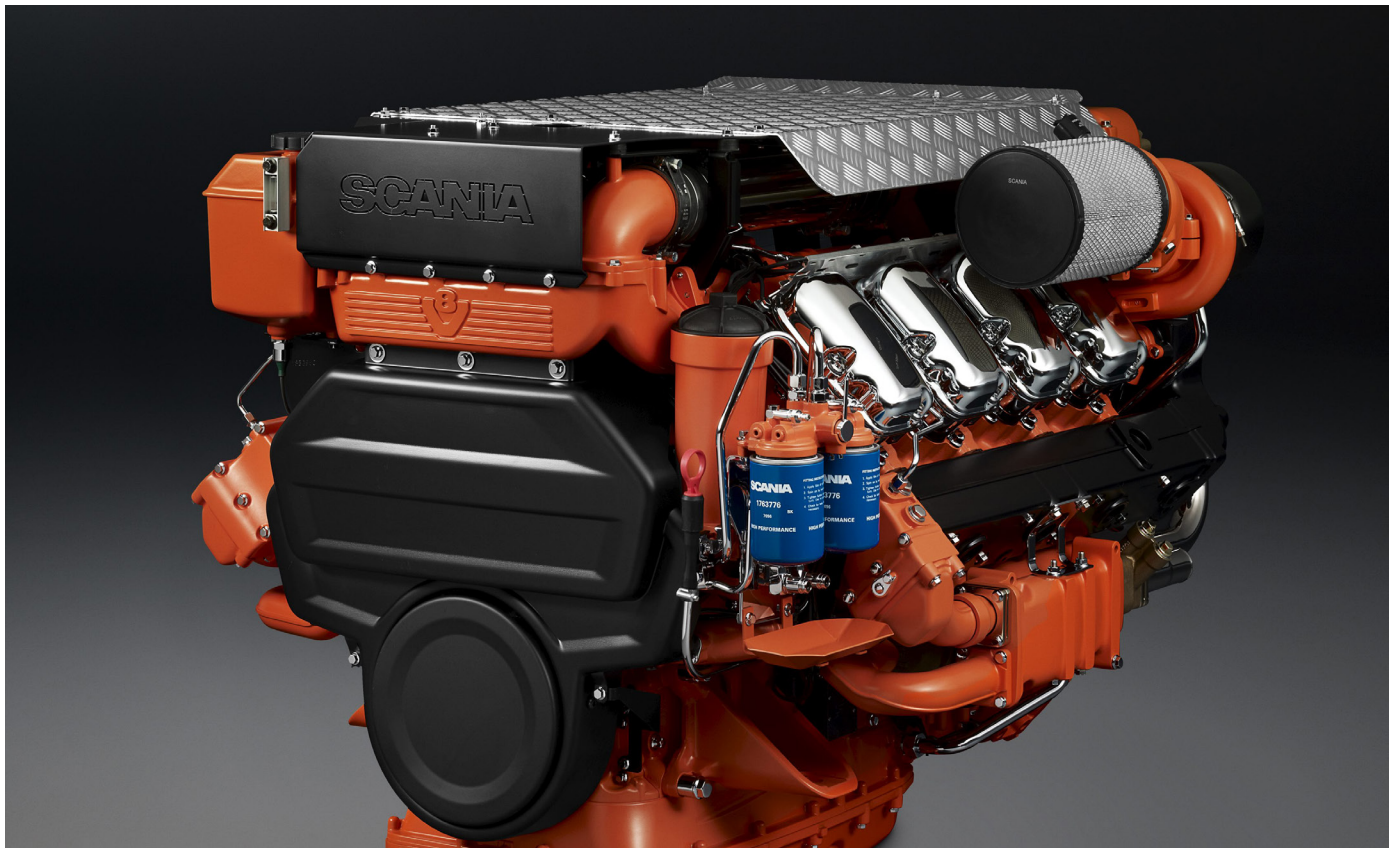


SCANIA MARINE ENGINE: IMO TIER II, IMO TIER III\*, EU STAGE IIIA

# 16-LITRE ENGINE



## Engine description

DI16 072M. 552 kW (750 hp)

Engine speed	2,100 rpm
Emission compliance	IMO Tier II, IMO Tier III*, EU Stage IIIA
Rating	IFN
No of cylinders	V8
Working principle	4-stroke
Displacement	16.4 litres
Weight	1,670 kg (excluding oil and coolant)
Oil capacity	40-48 litres (standard oil sump)
Electric system	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.

\* IMO Tier III compliant when using aftertreatment system from external supplier.

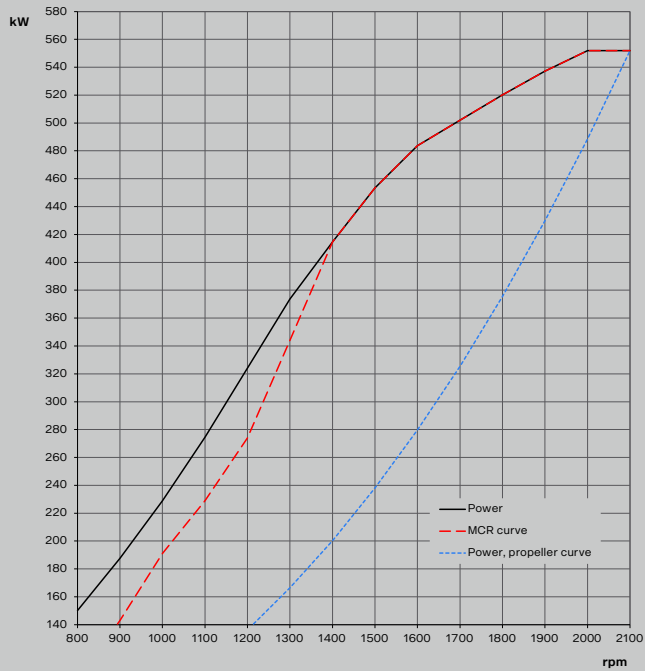
### Standard equipment

- Scania Engine Management System, EMS
- Unit injectors, PDE
- Dual turbochargers, heat insulated
- 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 valve cover
- Deep front oil sump
- Oil dipstick, front
- Starter motor, 2-pole 7.0 kW
- Alternator, 2-pole 100 A
- Flywheel SAE 14
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine suspension
- Catwalk and cover for belt transmission
- Closed crankcase ventilation
- Sea water pump
- Sea water-cooled charge air cooler
- Dual heat exchangers with expansion tanks

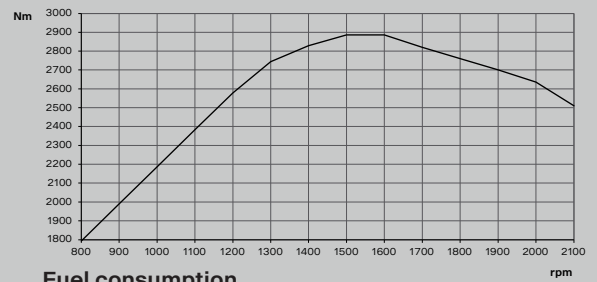
**IFN – Intermittent service:** Intended for intermittent use where rated power is available 1 h/3 h. Accumulated load factor must not exceed 80% of rated power. Unlimited h/year service time.

# Power charts

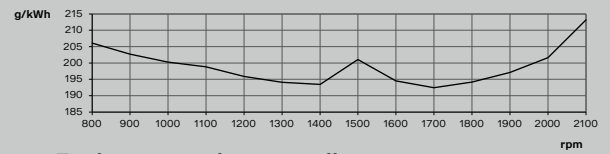
## Power



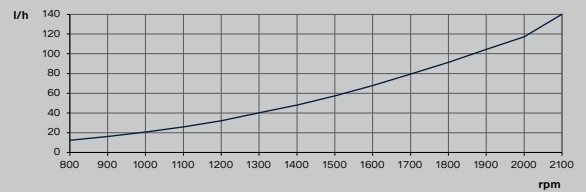
## Torque



## Fuel consumption



## Fuel consumption, propeller curve

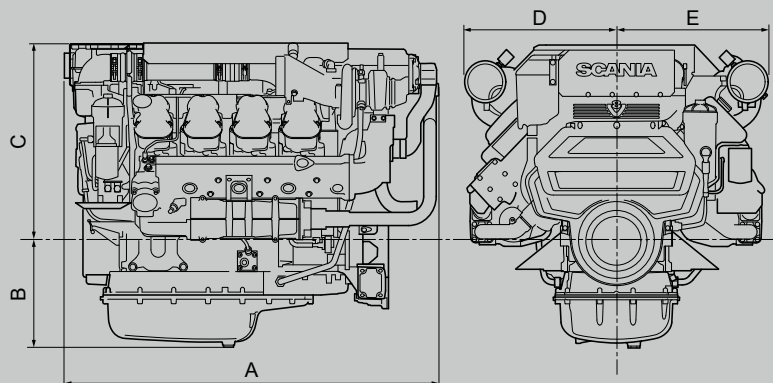


**Test conditions.** Air temperature 25°C. Barometric pressure 100 kPa (750 mmHg). Humidity 30%. Diesel fuel acc.to ECE R 24 Annex 6. Density of fuel 0.84 kg/dm<sup>3</sup>. Viscosity of fuel 3.0 cSt at 40°C. Energy value 42,700 kJ/kg. **Power test code** ISO 3046. Power and fuel values ±3%.

## Dimensions

A Overall length	1,550
B Centre of crankshaft to bottom	428
C Centre of crankshaft to top	786
D Centre of crankshaft to right-hand side	625
E Centre of crankshaft to left-hand side	625

All dimensions indicated in mm.



## Technical data

	Engine speed (rpm)			
	1,200	1,500	1,800	2,100
Gross power (kW)	324	453	520	552
Gross power (hp, metric)	441	617	708	750
Gross power, propeller curve (kW)	136	238	375	552
Gross power, propeller curve (hp, metric)	185	324	511	750
Gross torque (Nm)	2,579	2,887	2,760	2,510
Spec. fuel consumption at full load (g/kWh)	196	201	194	213
Spec. fuel consumption, propeller curve (l/h)	32.1	57.4	91.4	140.1
Heat rejection to coolant (kW)	240	335	367	462