

DI13 073M. 368 kW (500 hp)

IMO Tier II, US Tier 2, EU Stage IIIA



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	2100
Gross power, full load (kW)	IFN	235	315	352	368
Gross power, full load (hp, metric)	IFN	320	429	479	500
Gross power, propeller curve (kW)	IFN	91	159	250	368
Gross power, propeller curve (hp, metric)	IFN	124	216	340	500
Gross torque (Nm)	IFN	1870	2006	1868	1673
Spec fuel consumption. Full load (g/kWh)		198	205	199	221
Spec fuel consumption. 3/4 load (g/kWh)		197	206	200	226
Spec fuel consumption. 1/2 load (g/kWh)		199	208	207	234
Spec fuel consumption. Propeller curve (I/h)		20	35	54	88
Optimum fuel consumption (g/kWh)		195			
Heat rejection to coolant* (kW)		162	221	234	293

^{*}Including charge air

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.

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

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

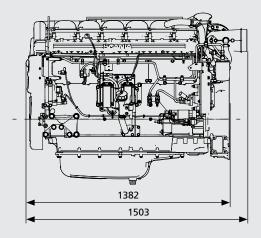


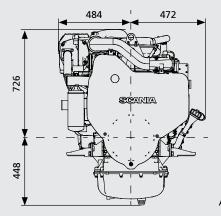
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Engine description

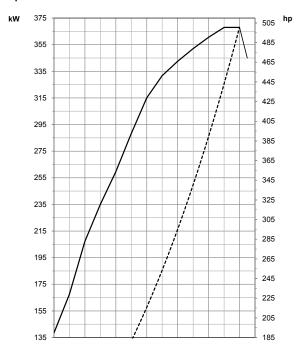
6 in-line	
4-stroke	
1 - 5 - 3 - 6 - 2 - 4	
12.7 litres	
130 x 160 mm	
16.3:1	
1180 kg (excl oil and coolant)	
8.0 m/s	
9.6 m/s	
High position alloy steel	
Steel pistons	
I-section press forgings of alloy steel	
Alloy steel with hardened	
and polished bearing surfaces	
28-34 dm³ (standard oil sump)	
2-pole 24V	



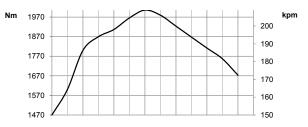


All dimensions in mm

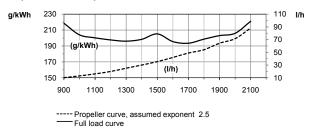
Output



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%.



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