

DI13 070M. 331 kW (450 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
Gross power, full load (kW)	ICFN	262	315	331
Gross power, full load (hp, metric)	ICFN	356	428	450
Gross power, propeller curve (kW)	ICFN	120	210	331
Gross power, propeller curve (hp, metric)	ICFN	163	285	450
Gross torque (Nm)	ICFN	2085	2003	1756
Spec fuel consumption. Full load (g/kWh)		192	191	202
Spec fuel consumption. 3/4 load (g/kWh)		194	200	212
Spec fuel consumption. 1/2 load (g/kWh)		199	203	217
Spec fuel consumption. Propeller curve (l/h)		29	50	79
Optimum fuel consumption (g/kWh)		190		
Heat rejection to coolant (kW)		174	205	242

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
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- Silumin flywheel housing, SAE 1 flange Front-mounted engine brackets
- ٠ Protection covers
- Sea water pump
- Heat exchanger with expansion tank
- Closed crankcase ventilation
- Operator's manual

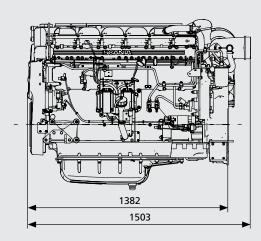
Optional equipment

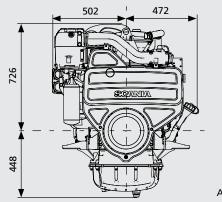
- Hydraulic pump
- Side-mounted PTO
- Front-mounted PTO
- Exhaust connections
- Electrical base system
- Control and instrument panels
- Accelerator position sensor
- Engine heater
- Power pack engine bracket
- Stiff rubber suspension
- Air cleaner
- · Studs in flywheel housing
- · Reversible fuel filter
- 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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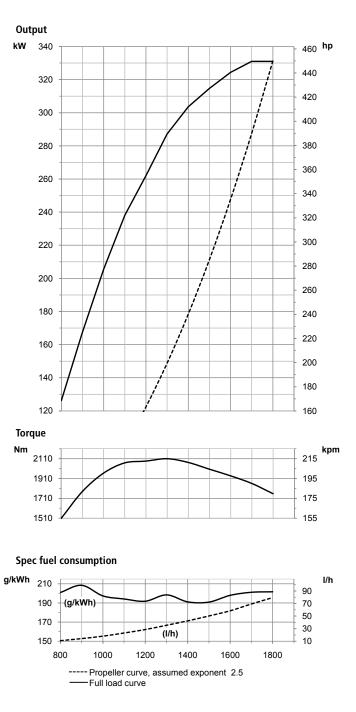
Engine description

No of cylinders	6 in-line	
Working principle	4-stroke	
Firing order	1 - 5 - 3 - 6 - 2 - 4	
Displacement	12.7 litres	
Bore x stroke	130 x 160 mm	
Compression ratio	16.3:1	
Weight	1285 kg (excl oil and coolant)	
Piston speed at 1500 rpm	8.0 m/s	
Piston speed at 1800 rpm	9.6 m/s	
Camshaft	High position alloy steel	
Pistons	Steel pistons	
Connection rods	I-section press forgings of alloy steel	
Crankshaft	Alloy steel with hardened and polished bearing surfaces	
Oil capacity	28-34 dm ³ (standard oil sump)	
Electrical system	2-pole 24V	





All dimensions in mm



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/dm³.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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