

## DI16 076M. 846 kW (1150 hp)

IMO Tier II, 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 Scania's XPI (Extra High Pressure Injection), a common rail system that gives low exhaust emissions with good fuel economy and a high torque. 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	2000	2300
Gross power, full load (kW)	Patrol craft short	348	597	769	822	846
Gross power, full load (hp, metric)		473	812	1046	1118	1150
Gross power, propeller curve (kW)		166	291	458	597	846
Gross power, propeller curve (hp, metric)		226	395	623	811	1151
Gross torque (Nm)		2769	3799	4079	3924	3512
Spec fuel consumption. Full load (g/kWh)		217	205	201	206	217
Spec fuel consumption. 3/4 load (g/kWh)		206	203	199	204	211
Spec fuel consumption. 1/2 load (g/kWh)		201	204	203	207	214
Spec fuel consumption. Propeller curve (l/h)		40	71	110	145	219
Optimum fuel consumption (g/kWh)				199		
Heat rejection to coolant (kW)		333	506	612	685	767

**Patrol craft short:** Intended for intermittent use where rated power is available 1 hour/12 hours period. Between full load operations engine rpm must be reduced at least 10% from max. obtained rpm. Accumulated total service time max. 1200 h/year.

#### Standard equipment

- Scania Engine Management System, EMS
- Extra high pressure fuel injection system, XPI
- Twin turbochargers, water cooled
- Fuel pre-filter with water separator
- Fuel filter
- · Oil filter, full flow
- · Centrifugal oil cleaner
- · Oil cooler, integrated in block
- · Oil filler, in valve cover
- Oil draining with plug
- Deep front oil sump
- · Oil dipstick, front
- Starter, 2-pole 7.0 kW (EMS controlled)
- Alternator, 2-pole 100A
- Flywheel SAE 14
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine brackets
- Catwalk and cover for belt transmission
- Closed crankcase ventilation
- Sea water charge air cooler
- Sea water pump
- Dual heat exchangers with expansion tank
- Operator's manual

### **Optional equipment**

- Electrical base system 2.0
- Scania EMS display
- Hydraulic pump
- Side-mounted PTO
- Front-mounted PTO
- Exhaust connections
- Engine heater
- Stiff rubber suspension
- Air cleaner
- · Studs in flywheel housing
- Low coolant level reaction
- Variable idle speed setting
- Low oil sump
- Oil draining with pump
- Oil level sensor
- Bilge pump

This specification may be revised without notice.

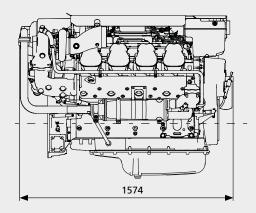


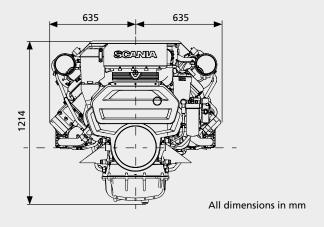
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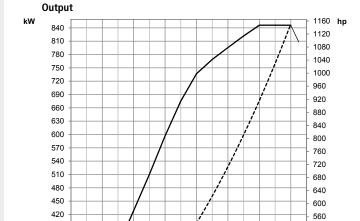
### IMO Tier II, EU Stage IIIA

### **Engine description**

V 8
4-stroke
1 - 5 - 4 - 2 - 6 - 3 - 7 - 8
16.4 litres
130 x 154 mm
15.7:1
1660 kg (excl oil and coolant)
7.7 m/s
9.24 m/s
High position alloy steel
Steel pistons
I-section press forgings of alloy steel
Alloy steel with hardened
and polished bearing surfaces
40-48 dm³ (standard oil sump)
2-pole 24V







520

480

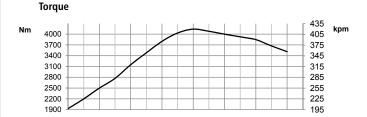
440

400

360

320

280





390

360

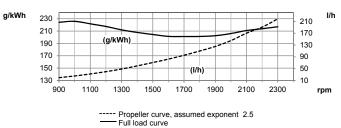
330

300

270

240

210



 $\textbf{Test conditions} \ \text{Air temperature} \ + 25^{\circ}\text{C.} \ \text{Barometric pressure 100 kPa (750 mmHg). Humidity 30 \%. Diesel fuel}$ 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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