DI13 081M. 368 kW (500 hp)
US Tier 3, IMO Tier II, CCNR II

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.

<table>
<thead>
<tr>
<th>Engine speed (rpm)</th>
<th>1200</th>
<th>1500</th>
<th>1800</th>
</tr>
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<tr>
<td>Gross power, full load (kW)</td>
<td>ICFN</td>
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<td>350</td>
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<td>ICFN</td>
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</tbody>
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ICFN – Continuous service: Rated power available 1 h/1 h.
Unlimited h/year service time at a load factor of 100%
DI13 081M. 368 kW (500 hp)
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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**: 17.3:1
- **Weight (excl oil and coolant)**: 1285 kg (Engine with heat exchanger)
  1180 kg (Engine with keel cooling)
- **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 dm³ (standard oil sump)
- **Electrical system**: 2-pole 24V

**Output**

![Output graph](image)

**Torque**

![Torque graph](image)

**Spec fuel consumption**

![Spec fuel consumption graph](image)

*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%.*

*Engine with heat exchanger
All dimensions in mm*