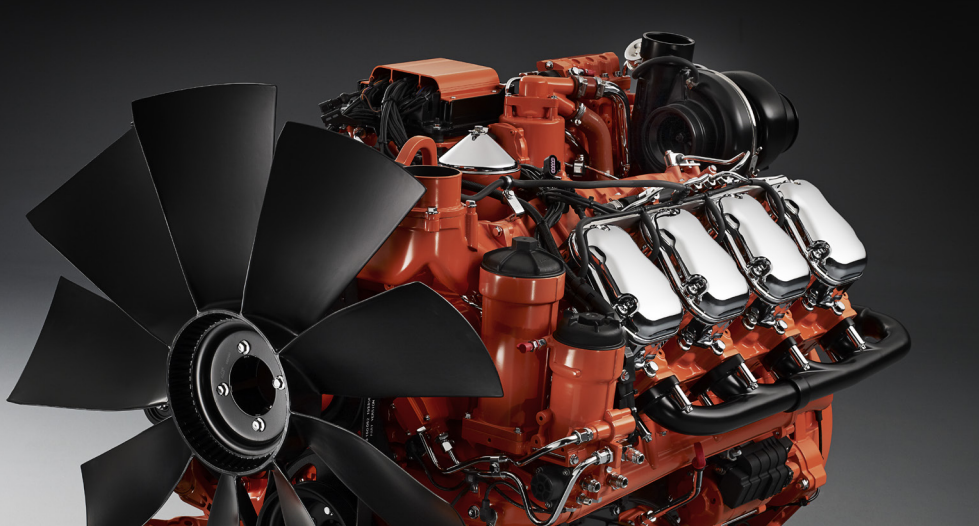




DC16 074A. 405 kW (550 hp)

China Phase II and Russia Stage I



The industrial 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 control of all aspects related to engine performance. The injection system is based on electronically controlled unit injectors that give low exhaust emissions with good fuel economy and a high torque. The engine can be fitted with many accessories such as air cleaners, silencers, PTOs and flywheels, to suit a variety of installations.

| | Engine speed (rpm) | | | |
|--|--------------------|------|------|------|
| | 1200 | 1500 | 1800 | 2100 |
| Gross power (kW) | 356 | 405 | 405 | 405 |
| Gross power (hp, metric) | 484 | 550 | 550 | 550 |
| Gross torque (Nm) | 2830 | 2578 | 2149 | 1842 |
| Spec fuel consumption at full load (g/kWh) | 197 | 194 | 204 | 234 |
| Spec fuel consumption at 3/4 load (g/kWh) | 196 | 196 | 206 | 238 |
| Spec fuel consumption at 1/2 load (g/kWh) | 198 | 198 | 214 | 257 |
| Heat rejection to coolant (kW) | 164 | 134 | 158 | 203 |

Rating: ICFN – Continuous service: Rated output available 1/1 h. Unlimited h/year service time at a load factor of 100%

Standard equipment

- Scania Engine Management System, EMS
- Unit injectors, PDE
- Turbocharger
- 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, in cylinder block
- Magnetic drain plug for oil draining
- Starter motor, 1-pole 7.0 kW
- Alternator, 1-pole 100 A
- Flywheel, for use with friction clutch
- Silumin flywheel housing, SAE 1 flange
- Front-mounted engine suspension
- Open crankcase ventilation

Optional equipment

- Cast iron flywheel housing
- Cooling package
- Prepared for cooling package
- Puller and pusher fans
- Fan ring with sealing
- Hydraulic pump
- Air compressor
- AC compressor
- Side-mounted PTO
- Front-mounted PTO
- Exhaust connections
- Engine heater
- Flywheel SAE14"
- Stiff rubber engine suspension
- Air cleaner
- Closed crankcase ventilation
- Studs in flywheel housing
- External thermostat for extra oil cooler
- Coolant level sensor
- Oil level sensor
- Low oil sump

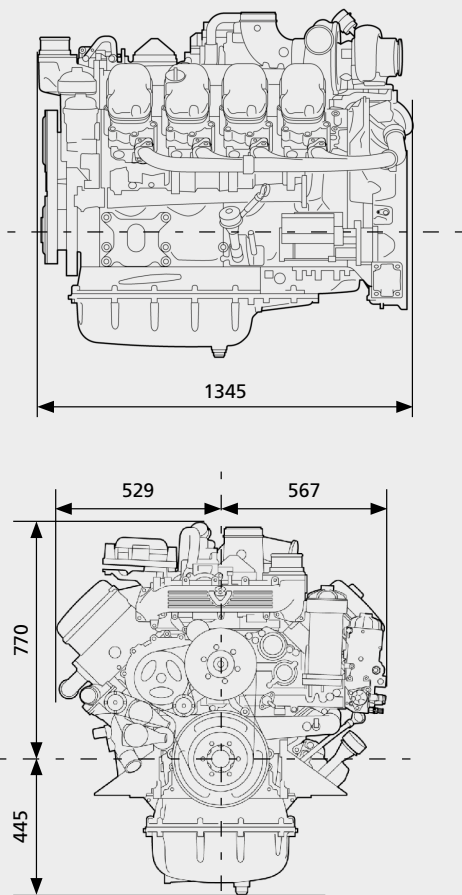


DC16 074A. 405 kW (550 hp)

China Phase II and Russia Stage I

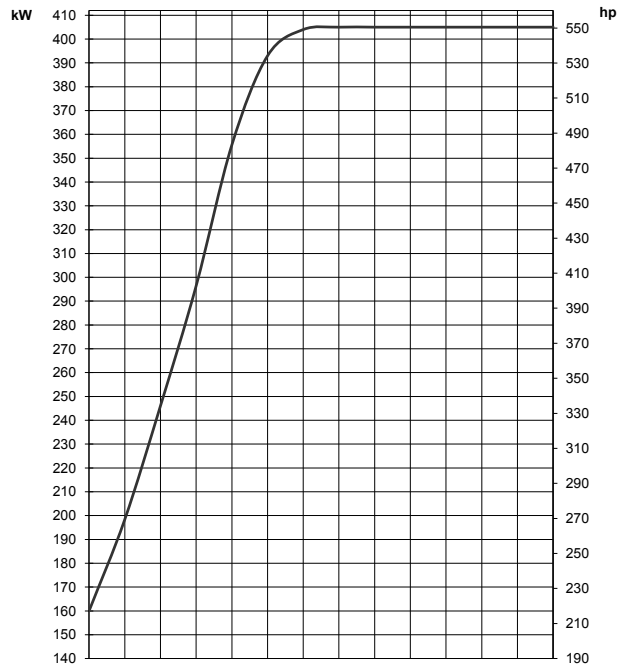
Engine description

| | |
|--------------------------|---|
| No of cylinders | 90° V8 |
| Working principle | 4-stroke |
| Firing order | 1 - 5 - 4 - 2 - 6 - 3 - 7 - 8 |
| Displacement | 16.4 litres |
| Bore x stroke | 130 x 154 mm |
| Compression ratio | 16.7:1 |
| Weight | 1340 kg (excl oil and coolant) |
| Piston speed at 1500 rpm | 7.7 m/s |
| Piston speed at 1800 rpm | 9.24 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 | 35-45 dm ³ |
| Electrical system | 1-pole 24 V |

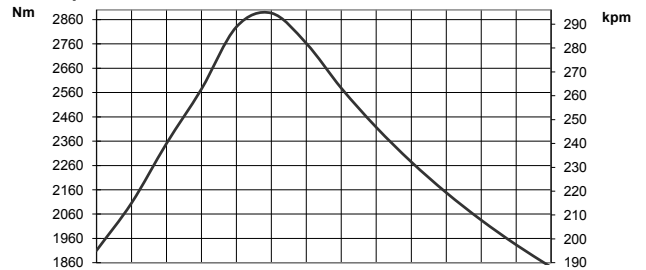


All dimensions in mm

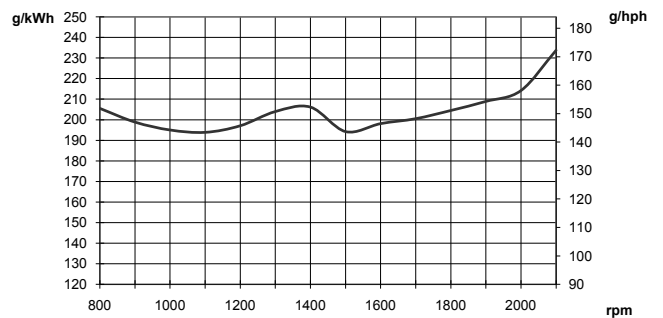
Output



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/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%.



SE 151 87 Södertälje, Sweden
 Telephone +46 8 553 810 00
 Telefax +46 8 553 829 93
www.scania.com
engines@scania.com