

DC16 076A. 425 kW (578 hp)

China Phase III and India Bharat Stage III



The industrial 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 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. The engine can be fitted with many accessories such as air cleaners, silencers, PTOs and flywheels in order to suit a variety of installations.

		Engine speed (rpm)			
	Rating	1200	1500	1800	1900
Gross power (kW)	IFN	280	383	425	425
Gross power (hp, metric)	IFN	381	521	578	578
Gross torque (Nm)	IFN	2230	2440	2255	2136
Spec fuel consumption. Full load (g/kWh)		205	203	218	245
Spec fuel consumption. 3/4 load (g/kWh)		200	201	216	250
Spec fuel consumption. 1/2 load (g/kWh)		201	202	220	266
Heat rejection to coolant (kW)		136	144	173	205

IFN – **Intermittent service:** Rated output available 1 h/6 hours period. Unlimited h/year service time at a load factor of 80%.

Standard equipment

- Scania Engine Management System, EMS
- Unit injectors, PDE
- Turbocharger
- Fuel filter and extra pre-filter with water separator
- Oil filter, full flow
- Centrifugal oil cleaner
- Oil cooler, integrated in block
- Oil filler, in valve cover
- Deep front oil sump
- Oil dipstick, in block
- Magnetic drain plug for oil draining
- Starter, 1-pole 7.0 kW
- Alternator, 1-pole 100A
- Flywheel, for use with friction clutch
- Silumin flywheel housing, SAE 1 flange
- Front mounted engine brackets
- Open crankcase ventilation
- Operator's manual

Optional equipment

- 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
- Electrical base system
- Control and instrument panels
- Accelerator position sensor
- Engine heater
- Flywheel: SAE14"
- Stiff rubber engine suspension
- Air cleaner
- Closed crankcase ventilation
- Studs in flywheel housing
- External thermostat for extra oil cooler
- Low coolant level reaction
- Variable idle speed setting
- Low oil sump



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Engine description

90° V8		
4-stroke		
1 - 5 - 4 - 2 - 6 - 3 - 7 - 8		
16.4 litres		
130 x 154 mm		
16.7:1		
1340 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		
35-45 dm ³		
1-pole 24V		





Spec fuel and reductant 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%



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All dimensions in mm