

KOHLER, DIESEL

- 3 in-line cylinders
- 1028 cm³
- 22,0 kW/30,0 HP
- 3600 r.p.m.
- Nm 65,0@1800



Construction

- 4-stroke Diesel engine with 3 in-line cylinders
- Combustion sequences 1-3-2
- Vertical or 35° tilted (exhaust upwards)
- Cast iron engine block with integral reborable liners
- Aluminium cylinder head
- "Crossflow" intake and exhaust system
- Unit Pump Common Rail System
- Single overhead camshaft driven by toothed belt
- Roller followers type II with hydraulic lash-adjusters
- Common Rail Direct injection (max available injection pressure: 1450bar)
- Inlet metering valve
- Electric feed pump (optional)
- Remote fuel filter
- Forced lubrication with vane pump
- Full flow cartridge filter
- High capacity oil sump
- Water cooling
- Water pump on engine block
- ECU
- Electric starter (optional)
- Belt driven alternator
- Engine wiring harness
- Oil breather system with recirculated blow-by

- Pneumatic EGR Valve with feedback position sensor
- EGR Cooler
- Oxidation Catalyst (optional)
- Timing belt cover complete with dust protection

EMISSIO (with DF;	N LIMITS in g/km)
EMISSION NORM	BS IV
4 wheeler N1 Class, Kerb mass < 1305 kg	CO = 0.45 NOx = 0.25 HC + NOx = 0.30 PM = 0.021
Vali	dity
11 Metro Areas Rest of India	from April 1st 2010 not yet defined

Main Application

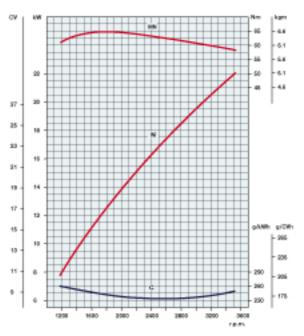
- Light duty truck (BS IV)
- Vehicle Type: Light Commercial Vehicle (LCV), class N1
- Inertia reference Mass: 1020kg
- Gear box type: Manual (5+1)

KOHLER.DIESEL

Specifications

Setting	kW @ rpm	22 @ 3600 rpm		
Dry weight	kg	90 (estimate)		
Emissions regulation conformity	E	harat Standard IV		
Displacement	cm ³	1028		
Nr of cylinders		3 in-line		
Bore x Stroke	mm	75 x 77.6		
Working cycle		4-stroke DIESEL		
Combustion sequences (cranks) 1-3-2				
Intake system	Naturally aspirated			
Injection system	Unit Pump Common Rail			
Cooling system		Liquid		
Max torque	Nm @ rpm	65 @ 1800		
Specific fuel consumption (at max por	wer) g/kWh	230		
Max idle speed	rpm	4000		
(TBC according to customer's requests)				
Low idle speed	rpm	900		
(TBC ac	(TBC according to customer's requests)			
Alternator	13.5 Volt	40 or 55 Ampere		
Water pump rated flow @ 4750 rpm	l/min	60		
Oil sump capacity	- 1	4,5		
Oil level max / min gap	- 1	1,5		
Engine oil specification	10W40 API 9	SJ/CF ACEA A3/B3		
Starter motor (optional)	kW	1,6		
Engine stop		ECU controlled		

Curve



N	Power curve - 80/1269/CEE - ISO 1585 -	
MN	Torque curve	
C	Specific fuel consumption	

Power ratings refer to engines equipe with air filter, standard muffler, after being run in and in ambient conditions of 20°C and 1 bar. Power levels drop by 1% every 100m altitude and by 2% every 5°C above 20°C.

Technical drawing

