




- 2 cylinders
- 1248 cm³
- 18.8 kW/25.5 HP
- 3000 r.p.m.
- Nm. 67@2000

Homologation

- EPA TIER 2 
- 97/68/CE Step II 
- ECE R 24 

Construction

- 4-stroke air cooled diesel engine
- Direct injection
- Air cooled by fan integral to the flywheel
- Mechanical fuel lift pump
- Forced lubrication with gear pump
- Full flow oil filtration with external cartridge filter
- Automatic extra fuel starting device
- Torque regulator
- Centrifugal speed governor
- Crankcase in die-cast aluminium
- Electric starting
- Counter-clockwise rotation (viewed from power take-off side)
- Aluminium alloy independent heads
- Re-borable independent cast-iron cylinders
- Power take-off on crankcase

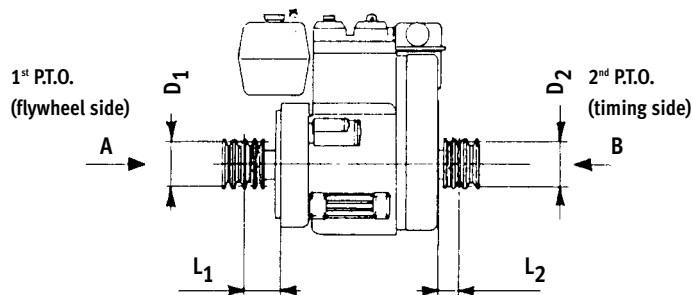


Applications

- Dumper
- Vibrating Roller
- Generating Set
- Welding Set
- High pressure cleaner
- Hydraulic power pack
- Agricultural pump
- Two-wheel tractor

Specifications

Cylinders	N.	2
Displacement	cm ³	1248
Bore	mm	95
Stroke	mm	88
Compression ratio		17.5:1
Rating kW/HP	NB ISO 3046 IFN	18.8/25.5
	NA ISO 3046 ICXN	17.1/23.2
Max. torque	Nm.	67@2000
Max. torque 3 P.T.O.	Nm.	30.0
Engine speed - 3 P.T.O. ratio		1:1
Minimum idling speed r.p.m.		1000÷1100
Fuel tank capacity	l	10
Oil consumption	kg/h.	0.013
Oil sump capacity	l	2.8
Min. allowable oil pressure	bar	1.5÷2.0
Max. allowable inclination for short periods of operation (peak values)		25° (35°)
Vol. of air required for correct combustion @ 3000 r.p.m.	l/min.	1870
Vol. of air required for correct cooling @ 3000 r.p.m.	l/min.	26300
Dry weight	kg	115
Recommended battery	V/Ah	12/66
Minimum pulley diameters for belt drive		

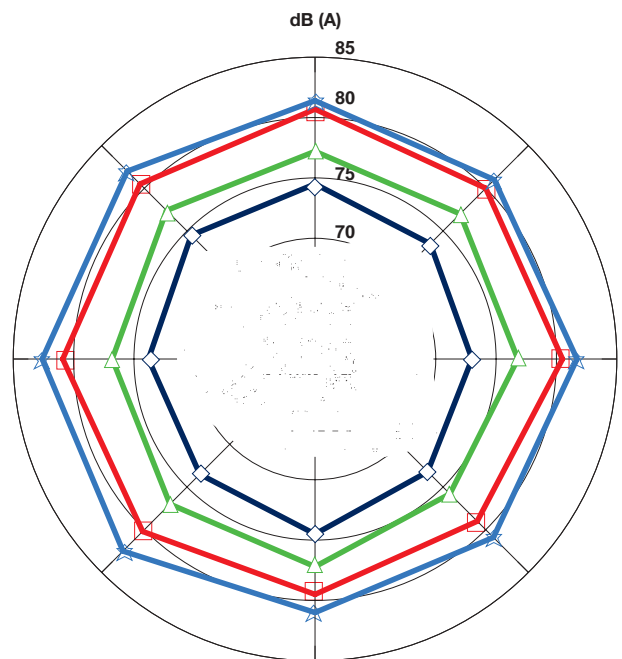


$$D_1 \text{ (mm)} \geq 136 [162 + L_1 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (RPM)}}$$

$$D_2 \text{ (mm)} \geq 204 [260 + L_2 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (RPM)}}$$

Sound pressure level dB (A)

Sound level polar diagram open field - 7 meters microphone - no load running engine.

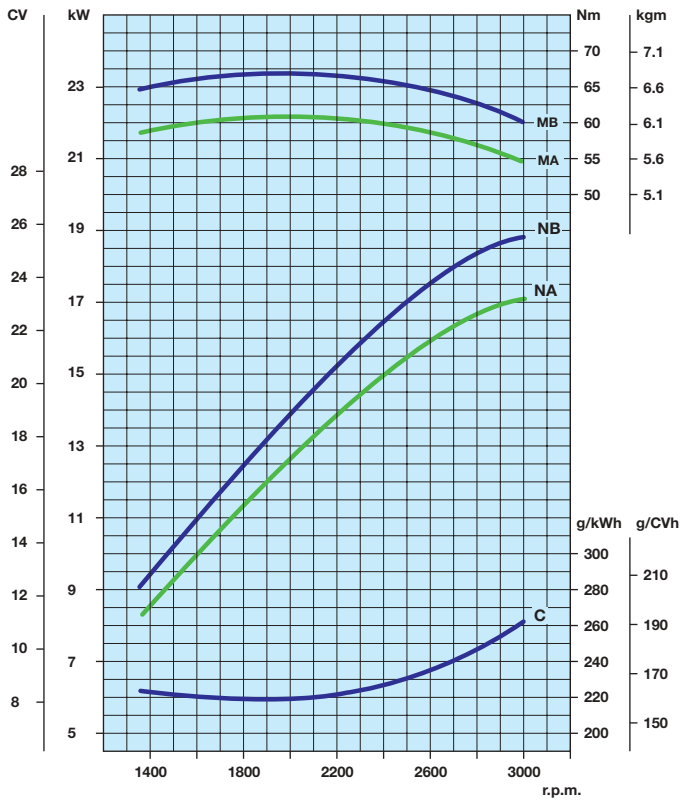


1500 RPM 2000 RPM 2500 RPM 3000 RPM

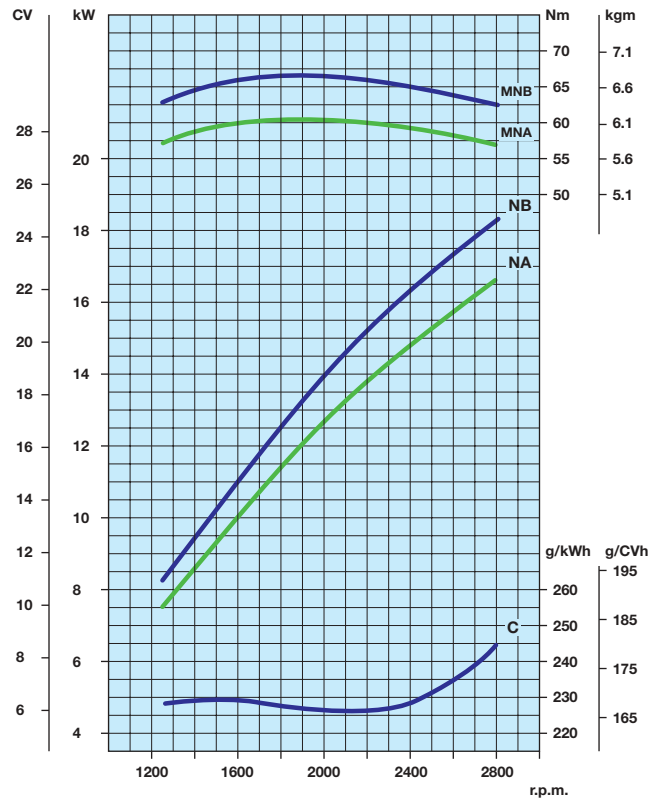
SERIE 9LD

Curves

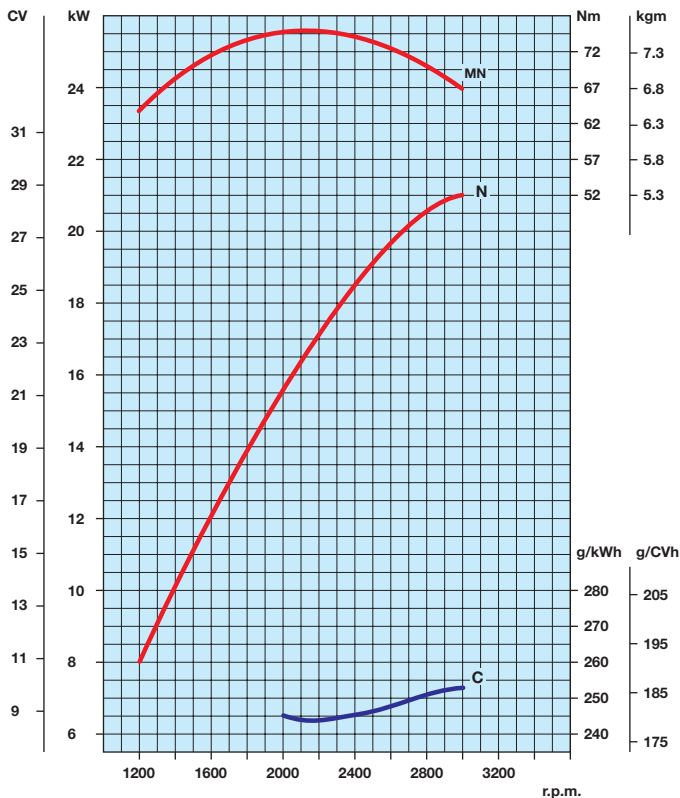
9LD625 @ 3000 r.p.m. ■ ● ▲



9LD625/2 B2 NR @ 2800 r.p.m. ■ ● ▲



9LD625/2 @ 3000 r.p.m.



N	Power curve - 80/1269/CEE - ISO 1585 -
NB	Power curve - ISO 3046/1 - IFN -
NA	Power curve - ISO 3046/1 - ICXN -
MN	Torque curve - (N curve)
MB (B curve - MA (A curve))	
C	Specific fuel consumption - (NB curve)

Output power for fixed speed application (including generating sets)

Engine power kW

r.p.m.	Intermittent (NB)	Continuous (NA)
3000	18.8	17.1
1800	13.5	12.0
1500	10.7	9.7

