

- 3 cylinders
- 1566 cm³
- 28.0 kW/37.9 HP
- 3600 r.p.m.
- Nm. 88@2200

Homologation

- EPA TIER 1 ■
- 97/68/CE ●
- ECE R 24-03 ▲

Construction

- 4-stroke air cooled diesel engine
- Direct injection
- Axle blower air cooling
- Mechanical fuel lift pump
- Forced lubrication with oil pump
- Full flow oil filtration with external cartridge filter
- Automatic extra fuel starting device
- Torque regulator
- Centrifugal speed governor
- Cast iron crankcase
- Electric starting
- Counter clock-wise rotation (viewed from power take-off side)
- Aluminium alloy independent heads
- Re-borable independent cast-iron cylinders
- Power take-off on flywheel
- Oil cooler



Applications

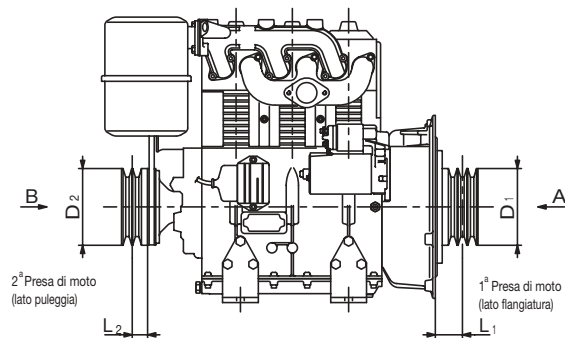
- Dumper
- Vibrating Roller
- Generating Set
- Welding Set
- High pressure cleaner
- Hydraulic power pack
- Agricultural pump
- Two-wheel tractor

SERIE 11LD

Specifications

Cylinders	N.	3
Displacement	cm ³	1566
Bore	mm	85
Stroke	mm	92
Compression ratio		18:1
Rating kW/HP	N (80/1269/CEE) ISO 1585	28.0/37.9
	NB ISO 3046 IFN	26.0/35.2
	NA ISO 3046 ICXN	23.6/32.0
Max. torque	Nm.	88@2200
Max. torque 3 PT.O.	Nm.	30.0
Counterclockwise rotation		
Engine speed - 3 PT.O. ratio		1:0.86
Minimum idling speed r.p.m.		1000
Fuel tank capacity	l	15
Oil consumption	kg/h.	0.017
Oil sump capacity	l	4.3
Min. allowable oil pressure	bar	0.8
Max. allowable inclination for short periods of operation (peak values)		25° (35°)
Vol. of air required for correct combustion @ 3600/3000 r.p.m.	l/min.	2850/2350
Vol. of air required for correct cooling @ 3600/3000 r.p.m.	l/min.	25400/21160
Dry weight	kg	153
Recommended battery	V/Ah	12/66
Axial load	(continuous)	kg 300
	(intermittent)	kg 600

Minimum pulley diameters for belt drive



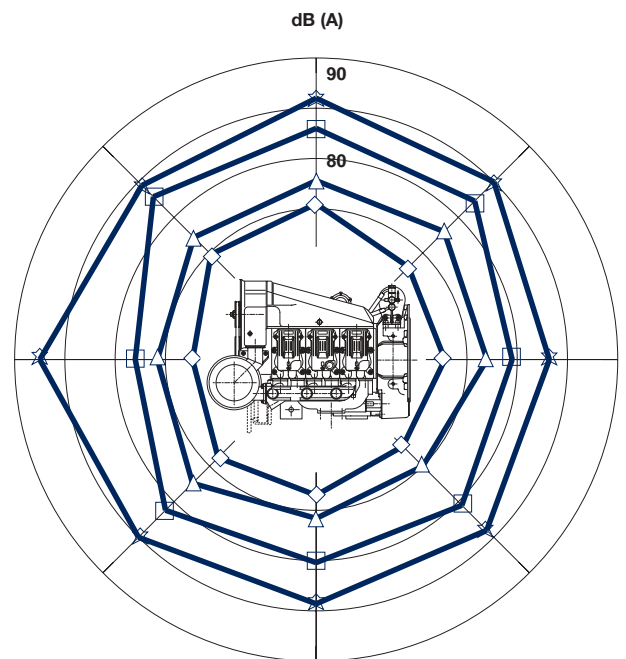
$$D_1 \text{ (mm)} \geq 334 [66+L_1 \text{ (mm)}] \quad \begin{matrix} N \text{ (kW)} \\ n \text{ (RPM)} \end{matrix}$$

$$D_2 \text{ (mm)} \geq 326 [95+L_2 \text{ (mm)}] \quad \begin{matrix} N \text{ (kW)} \\ n \text{ (RPM)} \end{matrix}$$



Sound pressure level dB (A)

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

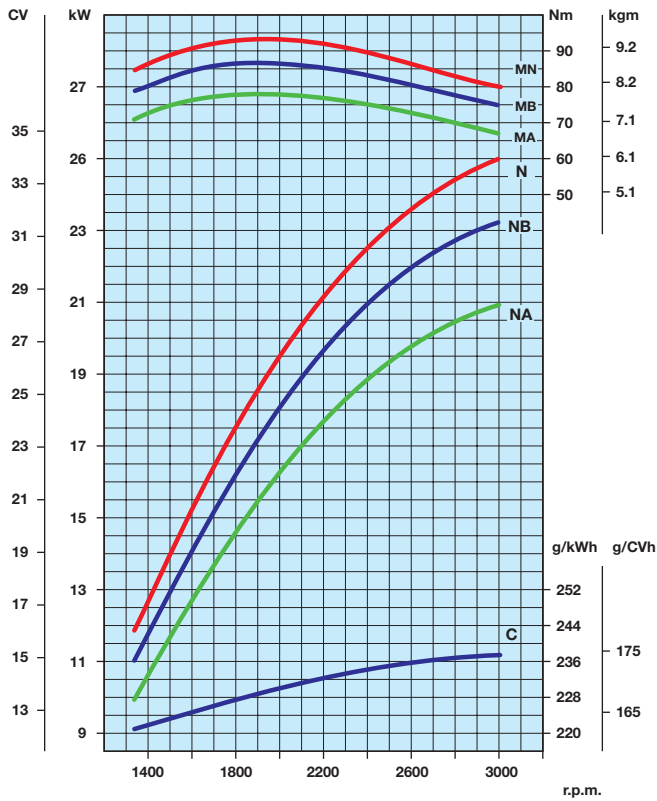


1500 RPM
 2000 RPM
 2500 RPM
 3000 RPM

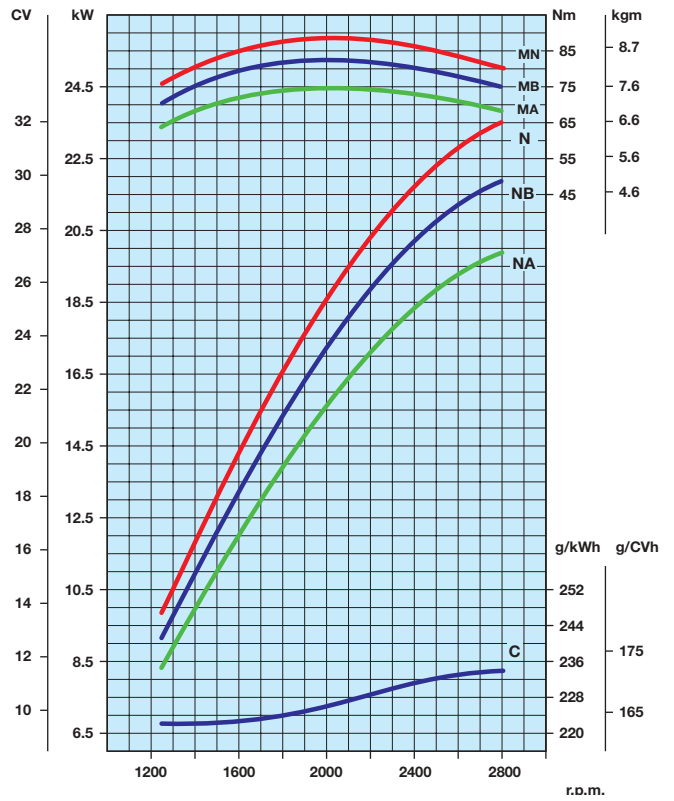
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Curves

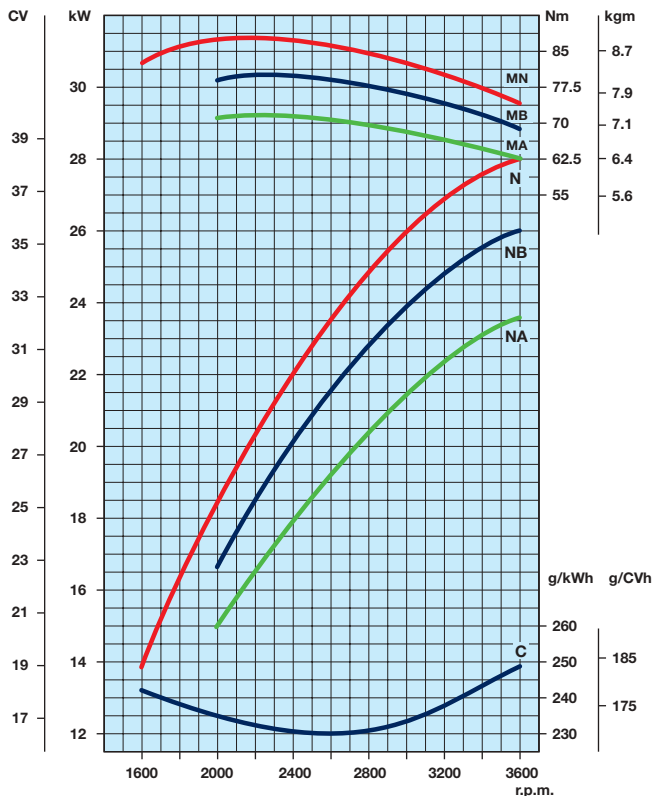
11LD 522/3 NR @ 3000 r.p.m. ■ ● ▲



11LD 522/3 B1 NR @ 2800 r.p.m. ■ ● ▲



11LD 522/3 @ 3600 r.p.m.



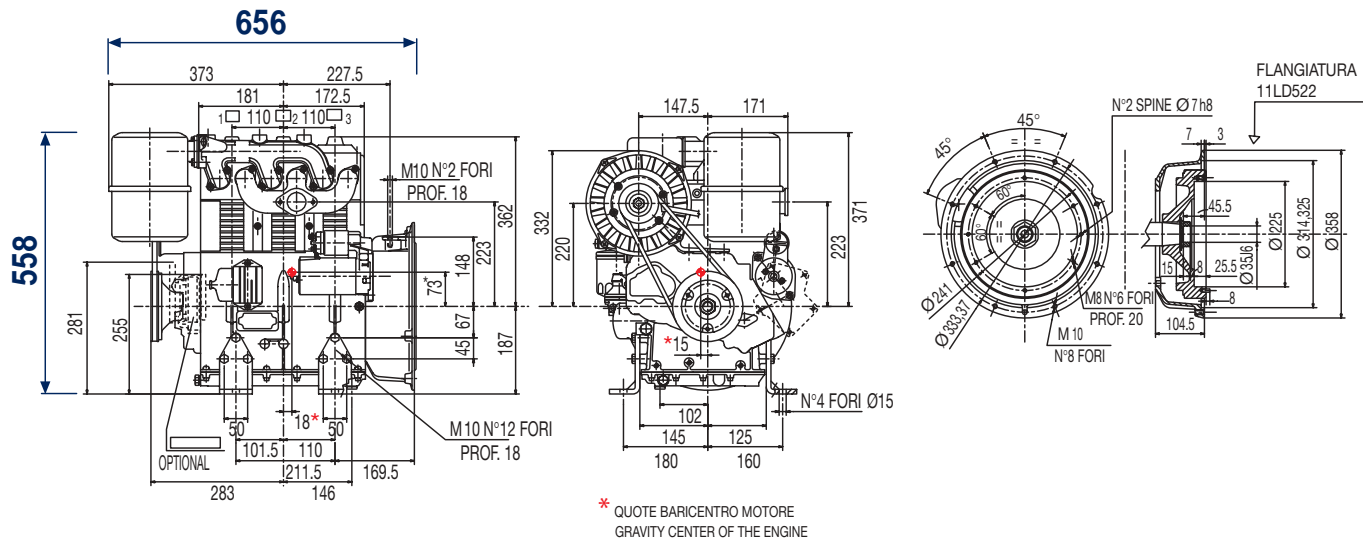
N	Power curve - 80/1269/CEE - ISO 1585 -
NB	Power curve - ISO 3046/1 - IFN -
NA	Power curve - ISO 3046/1 - ICXN -
MN	Torque curve - (N curve)
MB	(B curve - MA (A curve))
C	Specific fuel consumption - (NB curve)

Output power for fixed speed application (including generating sets)

Engine power kW

r.p.m.	Intermittent (NB)	Continuous (NA)
3600	26.0	23.6
3000	23.5	21.0
1800	16.2	14.7
1500	14.0	12.5

Technical drawings *



* More specific dimensions are available on www.lombardini.it (see table at the bottom of the page)

Standard equipment

- Electric starting with 12V starter motor and alternator
- Black paint on sheet metal parts
- Remote throttle
- Oil bath air filter
- External oil filter
- Oil pressure switch
- Exhaust manifold
- Engine feet
- Power take-off with SAE5 bell and flywheel for F215 type clutch
- Keyswitch panel
- Fuel lift pump
- Counter-clockwise rotation on power take-off side
- Fuel tank
- Automatic extra fuel device
- Oil cooler
- Use, maintenance and spare parts booklet

Accessories

- Different guards according to use
- Range of alternative alternators
- Flanges
- Detached dry air filter
- Clutches
- Range of flywheels for various clutches
- Hydraulic pump adapters
- Range of fuel tanks of various sizes
- Mufflers and exhaust pipes
- Controls
- Pulleys
- Varnishing



ISO 9001 Cert. n. 0446 - 1405
QS. 9000 Cert. n. 2231/0



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Files for this product available on www.lombardini.it

Data sheet	11LD522DS.PDF
Owner manual	11LD522OM.PDF
Service manual	11LD522SM.PDF
Technical drawing	11LD522TD.DWG
Power curve	11LD522PC.PDF

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