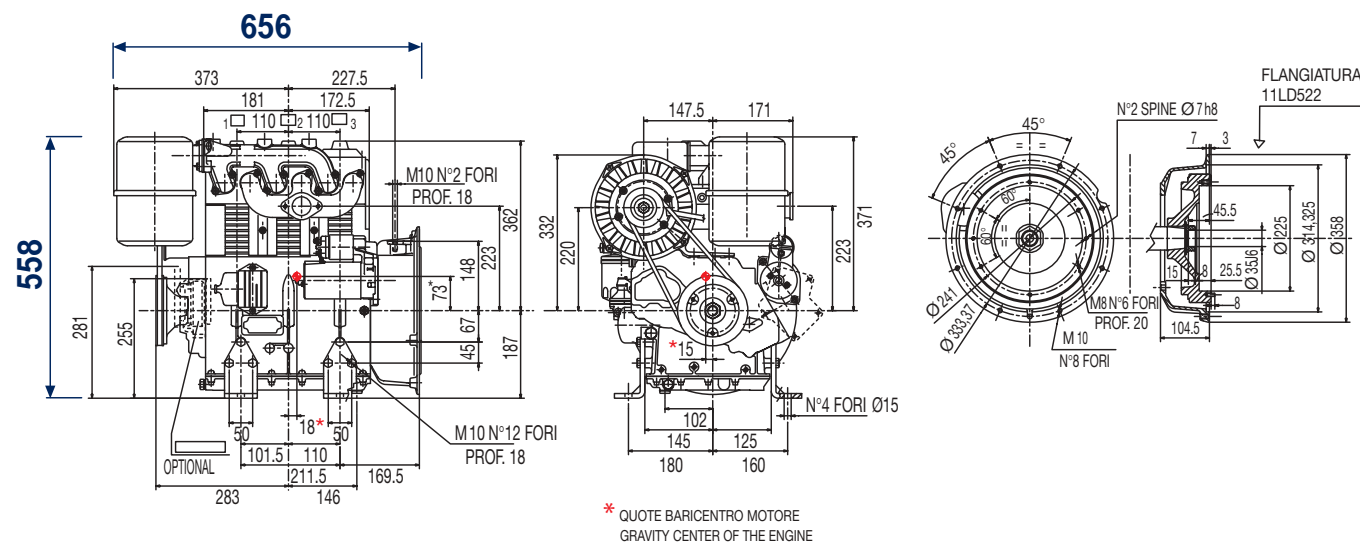


## Technical drawings \*



\* More specific dimensions are available on [www.lombardini.it](http://www.lombardini.it) (see table at the bottom of the page)

## Standard equipment

electric starting with 12V starter motor and alternator  
black paint (varnish) on sheet metal parts ?  
accelerator remote control  
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  
panel board  
fuel feed pump  
counter-clockwise rotation on power take-off side  
fuel tank  
automatic mechanical fuel supplement  
oil radiator  
use, maintenance and spare parts booklet

## Accessories

different guards according to use  
diverse power alternators  
flanges  
detached dry air filter  
clutches  
diverse flywheels for clutches  
hydraulic pump adapters  
various capacity tanks  
mufflers and exhaust pipes  
controls  
pulleys  
varnishing (painting) ?

Files for this product available on [www.lombardini.it](http://www.lombardini.it)

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

LOMBARDINI RESERVES THE RIGHT TO MAKE MODIFICATIONS WITHOUT PRIOR NOTICE

mod. 51046/1

- 3 cylinders
- 1566 cm<sup>3</sup>
- 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 feeding supplement
- forced lubrication with oil pump
- full flow oil filter with external cartridge
- automatic extra fuel starting device
- torque regulator
- centrifugal speed governor
- crankcase in die-cast aluminium
- 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 radiator

## Applications

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

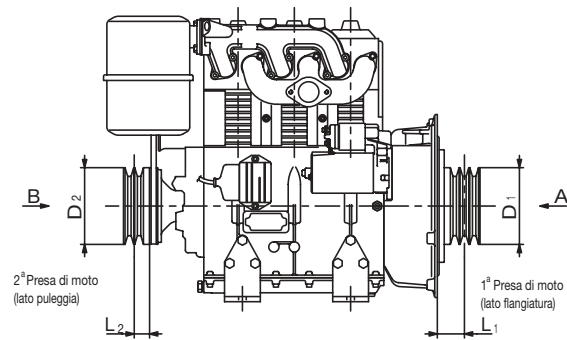


Via Cav. del Lavoro Adelmo Lombardini, 2  
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Tel. ++39 0522.3891 Fax ++39 0522.389503  
[www.lombardini.it](http://www.lombardini.it)

## Specifications

Cylinders	N.	3
Displacement	cm <sup>3</sup>	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 P.T.O.	Nm.	30.0
Counterclockwise rotation		
Engine speed - 3 P.T.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 tilt for short time operation (peak values)		25° (35°)
Combustion air required at 3600/3000 r.p.m.	l/min.	2850/2350
Cooling air required at 3600/3000 r.p.m.	l/min.	25400/21160
Dry weight	kg	153
Recommended battery	V/Ah	12/90
Axial load (continuous)	kg	300
(intermittent)	kg	600

Minimum pulley diameters for belt drive



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

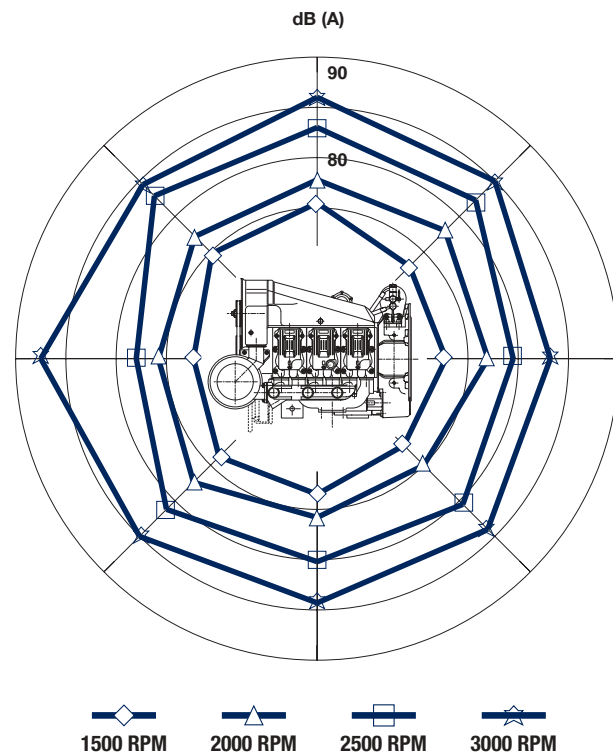
$$D_2 \text{ (mm)} \geq 326 [95+L_2 \text{ (mm)}] \frac{N \text{ (kW)}}{n \text{ (RPM)}}$$

Max. allowable axial load in both direction A-B = 650 kg



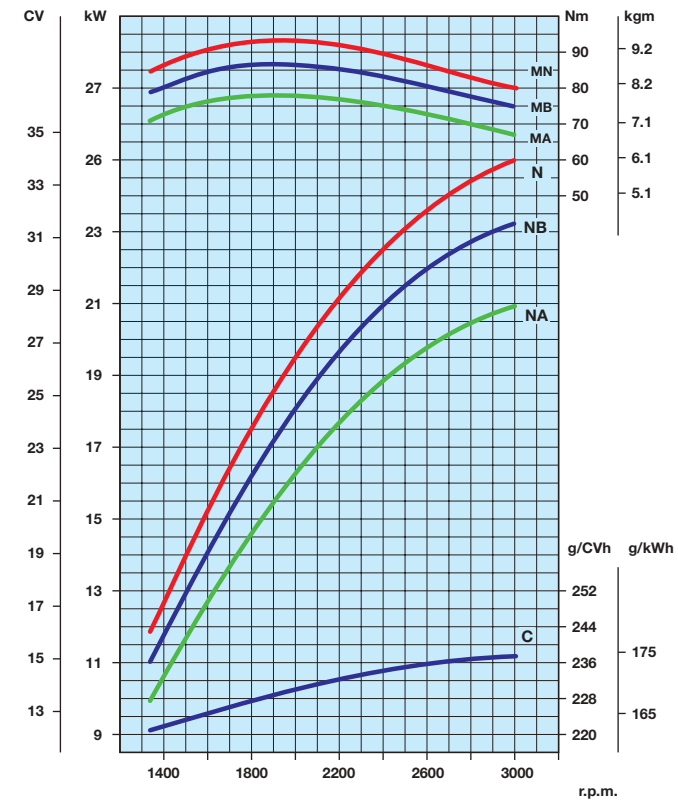
### Sound pressure level dB (A)

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

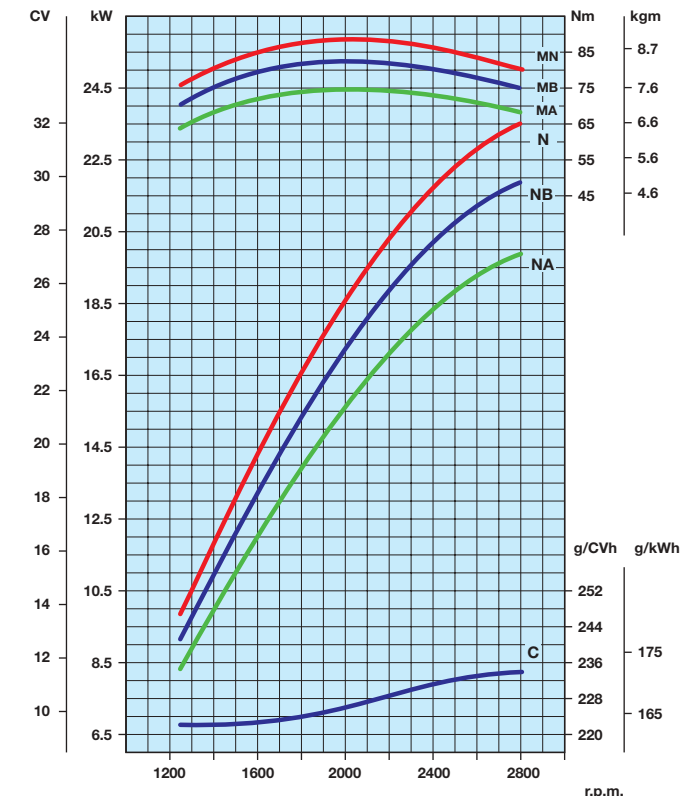


## Curves

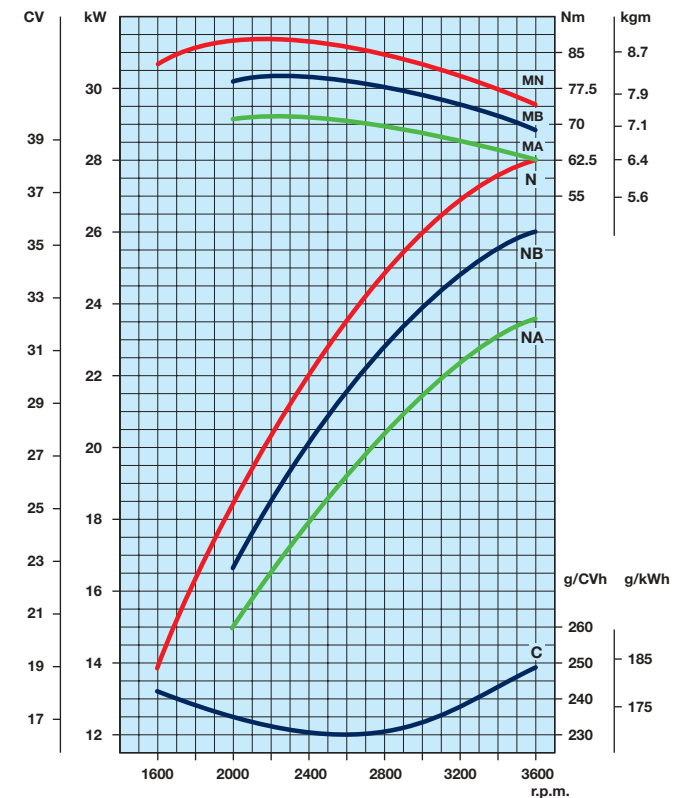
11LD 522/3 NR @ 3000 r.p.m. ■ ● ▲



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)

### Power for gen set or stationary running

#### 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