

Kohler® Diesel

Model KD440

1 Cylinder » 442 cc » 7.7 kW/10.3 HP » 3600 RPM » 18.4 ft. lbs. @2200 RPM

Certification

EPA TIER 2
ECE R 24

Features

- 4-Stroke Air-Cooled Diesel Engine
- SAE J609a Crankshafts
- Counter-Clockwise Rotation
- Direct Injection
- Full-Pressure Lubrication with Oil Pump
- Centrifugal Mass Governor
- Built-In Full-Flow Oil Filter
- Oil Breathing Blow-By with Safety Device
- Automatic Extra Fuel Starting Device
- Self-Bleeding Fuel System
- Torque Regulator
- Automatic Compression Release
- Die-Cast Aluminum Crankcase with Integral Cast Iron Cylinder Liner
- Aluminum Cylinder Head
- Mounting Feet
- Hydraulic Valve Lifters

Applications

- Two-Wheel Tractor
- Agricultural Mower
- Agricultural Pump
- High-Pressure Cleaner
- Generator
- Vibrating Plate
- Hydraulic Power Pack

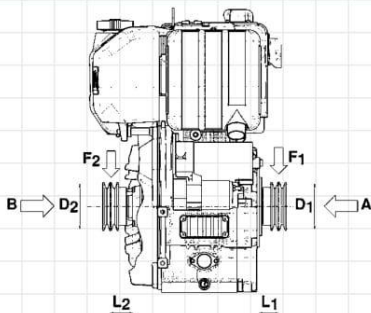


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Specifications

| | | |
|---|-------------------------|-----------------|
| Cylinders | No. of Cylinders | 1 |
| Displacement | cc/cu. in. | 442/27 |
| Bore | mm/in. | 86/3.4 |
| Stroke | mm/in. | 76/3 |
| Compression Ratio | | 20.3:1 |
| Rating kW/HP | NB ISO 3046 IFN | 7.4/10.1 |
| | NA ISO 3046 ICXN | 6.8/9.3 |
| Max. Torque | N·m/ft. lbs. @ 2200 RPM | 25/18.4 |
| Minimum Idling Speed RPM | | 950-1000 |
| Fuel Tank Capacity | liters/quarts | 5/5.3 |
| Oil Consumption | kg/h/lb/h | 0.0048/0.0106 |
| Oil Sump Capacity | liters/quarts | 1.5/1.6 |
| Min. Allowable Oil Pressure | bar/psi | 1-1.5/14.5-21.8 |
| Max. Allowable Incline for Short Periods of Operation (Peak Values) | | 25° (35°) |
| Volume of Air Required for Correct Combustion @ 3600 RPM | liters/min/cfm | 635/22 |
| Volume of Air Required for Correct Cooling @ 3600 RPM | liters/min/cfm | 5500/194 |
| Dry Weight | kg/lbs. | 45/99.1 |
| Recommended Battery | V/Ah | 12/44 |
| Minimum Pulley Diameters for Belt Drive | | |



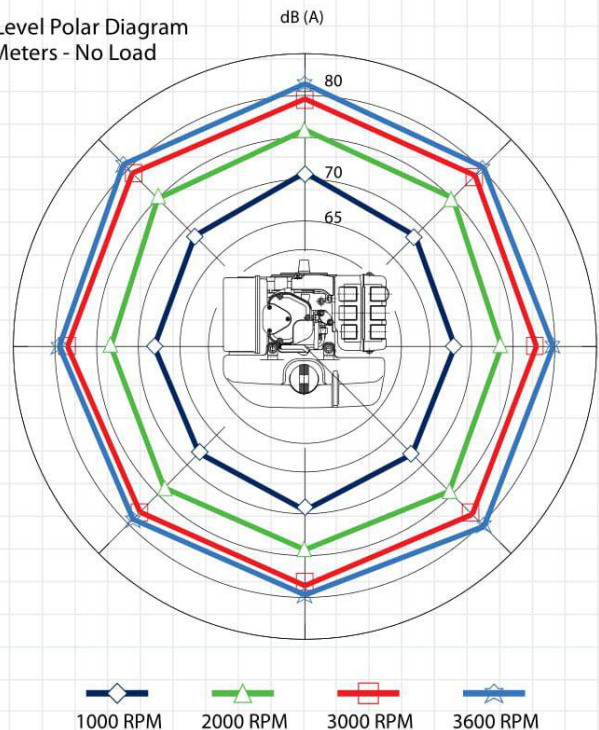
$D_1 \text{ (mm)} \geq 620 [66 + L_2 \text{ (mm)}]$ N (kW) —
n (RPM)

$D_2 \text{ (mm)} \geq 650 [53 + L_1 \text{ (mm)}]$ N (kW) —
n (RPM)

Max. Allowable Axial Load in Both Directions A-B = 200 kg/441 lbs.

Sound Pressure Level dB (A)

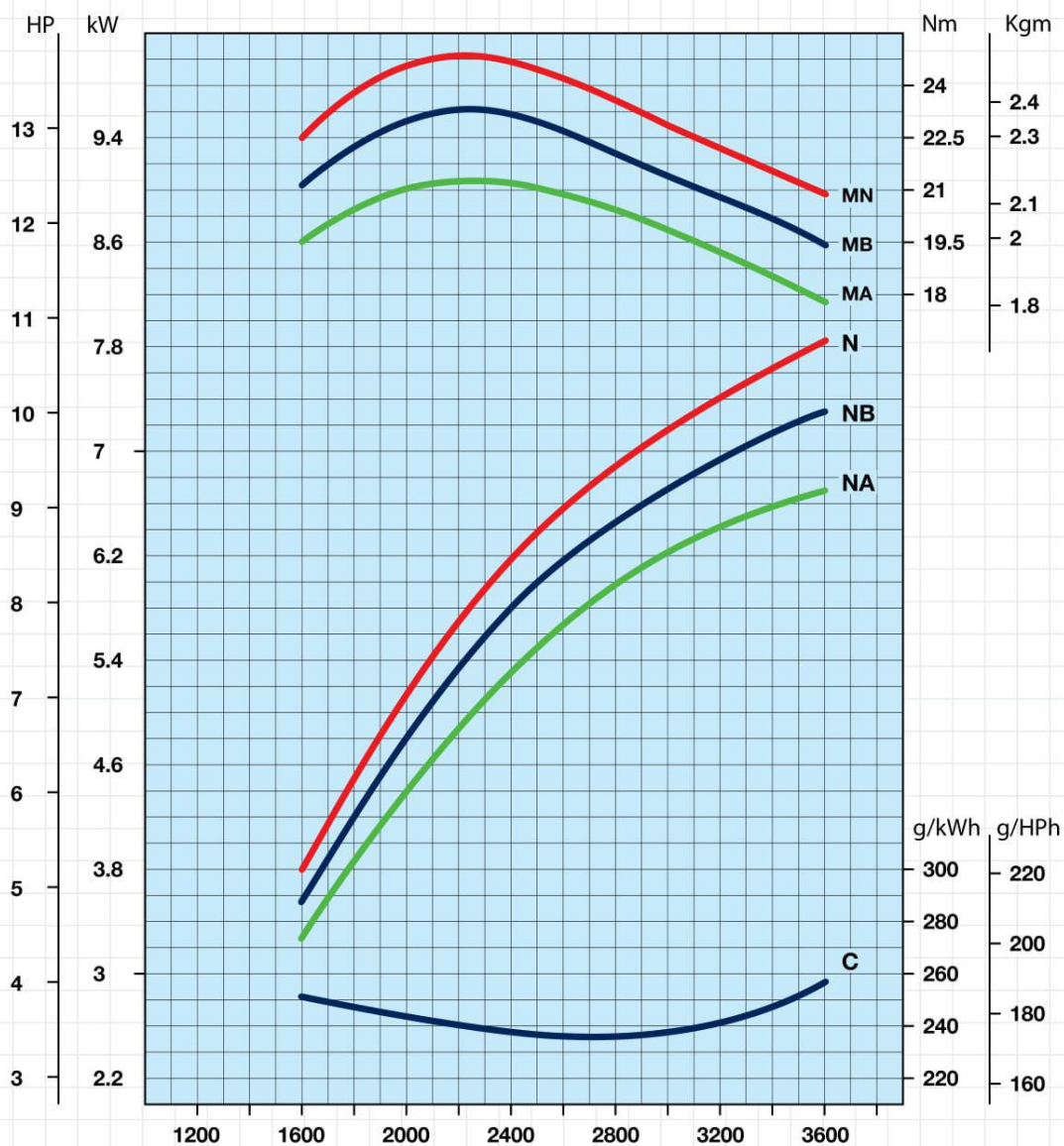
Sound Pressure Level Polar Diagram
Open Field at 7 Meters - No Load
Running Engine.



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Curves



| | |
|----|--|
| 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 | Torque curve - (B curve) |
| MA | Torque curve - (A curve) |
| C | Specific fuel consumption - (NB curve) |

