

# RELENTLESS POWER RELIABLE PERFORMANCE



**KOHLER**<sup>®</sup>  
IN POWER. SINCE 1920.



KD440 / KD441

# SERIES KD440 / KD441

## DIESEL KD440 / KD441

### CERTIFICATION / HOMOLOGATION

- CPCB II • BHARAT (Trem) STAGE III • BIS • CIFT Compatible

### APPLICATIONS

- Two-wheel tractor • Agricultural mower • Agricultural pump • High pressure cleaner • Generator set • Vibrating plate • Hydraulic power pack

### STANDARD EQUIPMENT

- Recoil starting and automatic & manual compression release
- Fuel tank
- Fuel filter
- Dry-air cleaner
- Muffler with guard
- Accelerator and stop manual control
- User maintenance-spare parts booklet

### ACCESSORIES

- Power take-off flywheel side(engines with electrical starting)
- Power take-offs with flanging and special shaft
- Parallel crankshaft Internal dynamic balancer
- Oil-bath air-cleaner
- Electric start 12 V / 24 V
- Keyswitch panel
- Emergency stop through electrovalve
- Accelerator and stop remote control
- Keystart panel with shutdown device
- Fuel lift pump
- Oil dipstick on cylinder head
- Oil pressure switch
- Oil temperature switch
- Glow plug on intake manifold
- Recoil with denoising cover
- Grass protection for engine cooling

### CONSTRUCTION

- 4 -stroke air cooled diesel engine
- Conical & cylindrical power take-off on crankshaft
- Anticlockwise rotation
- Direct injection
- Forced 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/manual compression release
- Die-cast aluminum crankcase with integral & separable cast iron cylinder liner
- Aluminum alloy cylinder head
- Built-in rigid feet
- Hydraulic & mechanical tappets.

### TECHNICAL SPECIFICATIONS:

KD440 / KD441		
Cylinders	N	1
Displacement	cm <sup>3</sup>	441
Bore	mm	86
Stroke	mm	76
Compression ratio		20.3:1
Rating kW/HP @ 3600 r.p.m.	N (80/1269/CEE) ISO 1585	8.0/10.9
	NB ISO 3046 IFN	7.4/10.1
	NA ISO 3046 ICXN	6.7/9.1
Max. torque	Nm	24.5@2200
Min. idling speed	rpm	1050 - 1150
Fuel tank capacity	l	5
Oil consumption	kg/h	0.0048
Oil sump capacity	l	1.5
Min. allowable oil pressure	bar	0.6 - 1.0
Max. allowable inclination for short periods of operation (peak values)	deg	25° (35°)
Vol. of air required for correct combustion @ 3600 r.p.m.	l/min	635
Vol. of air required for correct cooling @ 3600 r.p.m.	l/min	5500
Dry weight	kg	45
Base engine dimensions (LxWxH)	mm	412.8 x 340 x 493.1
Recommended battery	V/Ah	12/44

- Specifications may vary depending on Homologation.
- Kohler reserves the right to change the design or specifications without notice & without any obligation or liability whatsoever.



# SERIES FOCs PLUS

DIESEL KDW702 & KDW1003

## CERTIFICATION / HOMOLOGATION

• CPCB II • BIS • BHARAT (Trem) STAGE III A

## APPLICATIONS

• Excavator • Generator set • Refrigerating unit • Sweeper • Access platform • Roller • Lawn mower • Dumper • Tractor • Sprayer

## TECHNICAL SPECIFICATIONS:

	KDW702		KDW1003	
<b>Cylinders</b>	N	2	N	3
<b>Displacement</b>	cm <sup>3</sup>	686	cm <sup>3</sup>	1028
<b>Bore</b>	mm	75	mm	75
<b>Stroke</b>	mm	77.6	mm	77.6
<b>Compression ratio</b>		22.8:1		22.8:1
<b>Rating kW/HP @ 3600 r.p.m.</b>	N (80/1269/CEE) ISO 1585	12.5/17.0	N (80/1269/CEE) ISO 1585	20.0/26.5
	NB ISO 3046 IFN	11.7/16.0	NB ISO 3046 IFN	18.6/24.9
	NA ISO 3046 ICXN	10.7/14.5	NA ISO 3046 ICXN	17.0/22.8
<b>Max. torque</b>	Nm	40.5@2000	Nm	67@2000
<b>Min. idling speed</b>	rpm	900-1200	rpm	900-1200
<b>Water pump delivery at 3600 r.p.m.</b>	l/min	40 (~)	l/min	50 (~)
<b>Oil consumption</b>	kg/h	0.009	kg/h	0.013
<b>Oil sump capacity</b>	l	4.7/1.6	l	4.7/2.4
<b>Min. allowable oil pressure</b>	bar	1.0-1.5	bar	1.0-1.5
<b>Max. allowable inclination for short periods of operation (peak values)</b>	deg	25° (35°)	deg	25° (35°)
<b>Vol. of air required for correct cooling @ 3600 r.p.m.</b>	l/min	1240	l/min	1850
<b>Vol. of air required for correct combustion @ 3600 r.p.m.</b>	m <sup>3</sup> /min	43	m <sup>3</sup> /min	63
<b>Dry weight</b>	kg	66	kg	85
<b>Base engine dimensions (LxWxH)</b>	mm	424 x 412 x 519	mm	516 x 412 x 519
<b>Recommended battery</b>	V/Ah	12/44	V/Ah	12/44

## STANDARD EQUIPMENT

- External oil filter
- Intake manifold
- Exhaust manifold
- Intake fan
- Accelerator control
- Electric starter and 12V alternator
- Thermostatic valve
- Fuel feed diaphragm pump
- Water pump
- Flanging plate
- Flywheel with ring gear
- User maintenance-spare parts booklet

## ACCESSORIES

- Different guards according to use
- Clutch flywheels
- Flanges
- Transmission adaptors
- Keyswitch panel
- Electric stop
- Electronic plant for plugs
- Alternators 12V or 24V
- Radiators
- Blowing fan
- Engine feet
- Fuel tanks
- Mufflers
- Dry air-cleaners mounted and separated
- Cyclonic pre-cleaners
- Fuel filter on engine
- High capacity oil sumps
- Cab heating system

## CONSTRUCTION

- 4-stroke diesel engine with cylinders in line
- Liquid-cooled with axial fan
- Indirect injection with injector-pump on head
- Single-shaft distribution in head
- Distribution control with timing belt
- Double pto on the crankshaft
- Pto on the distribution
- Counterclockwise rotation
- Forced lubrication with vane pump on the crankshaft
- Total passage external oil filter
- Water pump in the engine block
- Automatic extra fuel starting device
- Centrifugal governor
- Torque regulator
- Cast iron engine block with re-borable integral liners
- Aluminum cylinder head

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# SALES SERVICE AND PARTS

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## ENGINE RANGE : 4.5 - 134 HP

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NATIONALLY REGISTERED

 **LOMBARDINI**  
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