

KOHLER
ENGINES

INNOVATIVE TECHNOLOGY

HIGH PRESSURE COMMON RAIL

TIER 4 FINAL COMPLIANCE

OPTIMIZED COMBUSTION

NO ADDITIONAL DPF

NOW YOU CAN

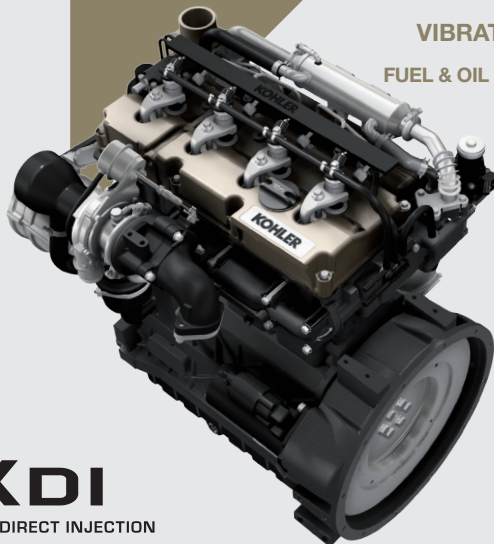
**FORGET
ABOUT**

MAINTENANCE

EXHAUST EMISSIONS

VIBRATION & NOISE

FUEL & OIL CONSUMPTION

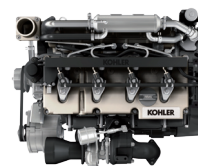


KDI

KOHLER DIRECT INJECTION

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TURBO COMMON RAIL ENGINES



Model		KDI1903TCR	KDI2504TCR
Engine specs	4 stroke diesel with cylinder in line	•	•
	Liquid cooling	•	•
	4 valves per cylinder	•	•
	In crankcase camshaft, gear train driven	•	•
	Pushrod - rocker arms timing with hydraulic tappets	•	•
	Cast iron crankcase with bed-plate	•	•
	Close-circuit crankcase breather	•	•
	High pressure common rail (2000 bar)	•	•
	Electronic engine management	•	•
	Waste-gate turbocharger	•	•
	Charge air cooling	•	•
Technical features	Cylinder	3	4
	Bore (mm)	88	88
	Stroke (mm)	102	102
	Engine displ (cm ³)	1861	2482
	Injection system	DI	DI
	Injection Equipment	Common rail (2000 bar)	Common rail (2000 bar)
	Emission compliance	TIER 4 final / STAGE III B	TIER 4 final / STAGE III B
Performance	Max power (ISO 14396) (kW@rpm)	42@2600	55.4@2600
	Max torque (Nm@rpm)	225@1500	300@1500
	Low-end torque (Nm@1000 rpm)	190	250
Fuel economy	Best point (g/kWh)	210	210
	Max power (g/kWh@2600)	240	240
Startability	Unaided (°C)	-20	-20
	Aided* (°C)	-30	-30
	* Manifold grid heater		
Fuel compatibility	UNI EN 590-2010	•	•
	No 1 Diesel (US)	•	•
	No 2 Diesel (US)	•	•
	City Diesel (low sulphur)	•	•
Service features	Oil/filter change interval std/synthetic (hr)	500-750*	500-750*
	Valve adjustment	—	—
	Alternator belt replacement	36mth	36mth
	Coolant change	2 yrs	2 yrs
	Oil consumption (% fuel)	<0.1	<0.1
	* according to operating conditions		
Physical characteristics	H x L x W (fan excluded) (mm)	715.8 x 598.3 x 520.7	715.8 x 704.3 x 520.7
	Weight (kg)	233	267
	Daily service points - positions	1 side service	1 side service
	Ambient operating temps (°C)	-40 to +50	-40 to +50
	Gradeability-all round (continuous) (deg)	25	25
	Gradeability-all round (intermittent-1min) (deg)	35	35
Cooling & lubrication	Heat rejection to coolant (includes oil cooler) (kW)	32	44
	Cooling fluid: 50/50 water/antifreeze	•	•
Vibration	Max engine excitation at mounting locations	5g	5g
Options	Brand	Kohler/Lombardini	Kohler/Lombardini
Auxiliary PTO (3rd & 4th) (optional)	Max torque (Nm)	100	100
	Rotation speed	1.23 times engine speed	1.23 times engine speed

KOHLER®

Kohler/Lombardini reserves the right to make modifications without prior notice.

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