

KD3500 50 Hz. Diesel Generator Set EMISSION OPTIMIZED DATA SHEET TIER 2 COMPLIANT

ENGINE INFORMATION									
Model:	KD83V16	Bore:	175 mm (6.89 in.)						
Туре:	4-Cycle, 16-V Cylinder	Stroke:	215 mm (8.46 in.)						
Aspiration:	Turbocharged, Intercooled	Displacement:	83 L (5048 cu. in.)						
Compression ratio:	16:0:1								
Emission Control Device:	Direct Diesel Injection, Engine Control Module, 7	Furbocharger, Cha	rge Air Cooler						
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EXHAUST EMISSION DATA:

HC

- NO_x (Oxides of Nitrogen as NO₂)
- CO (Carbon Monoxide)
- PM (Particular Matter)

EPA D2 Cycle 5-mode weighted

0.45 g/kWh 5.88 g/kWh 1.05 g/kWh 0.08 g/kWh

EMISSION DATA												
Cycle point	100% ESP		100% PRP		75% ESP		75% PRP		50% PRP			
Power [kW]	3007		2734		2255		2051		1367			
Speed [rpm]	1500		1500		1500		1500		1500			
NO _X [g/kWh]	9.3		7.8		6.0		5.9		5.2			
CO [g/kWh]	0	.2	0.2		0	0.3		0.4		1.3		
HC [g/kWh]	0.	29	0.31		0.34		0.35		0.45			
PM [g/kWh]	0.	01	0.01		0.02		0.02		0.07			
	@ 5% O ₂	@ 15% O ₂	@ 5% O2	@ 15% O ₂	@ 5% O2	@ 15% O ₂	@ 5% O ₂	@ 15% O ₂	@ 5% O ₂	@ 15% O ₂		
HC [mg/Nm ³]	98	37	102	38	109	41	113	42	134	50		
NOx [mg/Nm ³]	3174	1190	2610	979	1920	720	1873	702	1538	577		
CO [mg/Nm ³]	79	30	82	31	105	39	120	45	382	143		
PM [mg/Nm ³]	2	1	2	1	7	3	6	2	21	8		

TEST METHODS AND CONDITIONS

Test Methods:

Steady-State emissions recorded per ISO8178-1 during operation at rated engine speed (+/-2%) and stated constant load (+/2%) with engine temperatures, pressures and emission rated stabilized.

Fuel Specification: EN590 Diesel Fuel

Reference Conditions:

25°C (77 °F) Air Inlet Temperature, 40°C (104 °F) Fuel Inlet Temperature, 100 kPa (29.53 in Hg) Barometric Pressure; 10.7 g/kg (75 grains H2O/lb) of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit.

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Test conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results.

Data and specifications subject to change without notice.