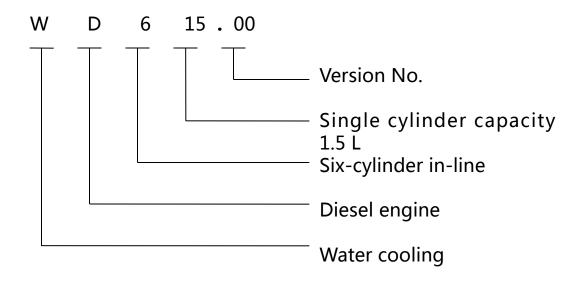
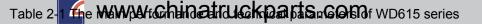


SECTION 2 ENGINE MODELS AND TECHNICAL PARAMETERS

The definition of the model of WD615 series diesel engines is as follows:



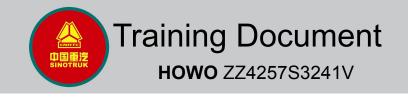


Ser. No.	Item\Engine model		WD615.64	WD615.62	WD615.87	WD615.69	WD615.47		
1	Rated power kW(iso1585)		raining	, Docum		247	272		
2	Rated rpm	SINOTRUK	HOWO	ZZ4257S324	1V ²²⁰⁰	2200	2200		
3	Max. torque Nm		1000	1100	1160	1350	1460		
4	Max. torque rpm		1300-1600	1300-1600	1300-1600	1300-1600	1300-1600		
5	Emission index	Euro II							
6	Number of cylinders	6							
7	Туре	Four-stroke, water-cooling, in-line, direct-injection, dry-type oil cylinder							
8	Cylinder bore./stroke mm	126/130							
9	Displacement L	9.726							
10	Mean piston speed m/s	9.53							
11	Compression ratio	15.5:1							
12	Compression pressure kPa	>2000							
13	Mode of air intake	Inter-cooling							
14	order of ignition		1-5-3-6-2-4						
15	Cold-state valve clearance mm	Intake 0.3 Exhaust 0.4							
16	Valve timing (valve clearance, with 0.3 intake/0.4 exhaust)		Intake valve opens 43°-39° before top dead center, Intake valve closes 61°-67° after top bottom dead center Exhaust valve opens 76°-81° before top dead center, Intake valve closes 26°-34° after top bottom dead center						
17	Thermostat opening temperature $^{\circ}C$	80 or 71							
18	Type of starting	Electric starting							
19	Type of lubrication		Pressure lubrication						
20	Lubricating oil capacity (oil pan) L		19						
21	Type of cooling		Water-cooling forced circulation						
22	oil pressure kPa		350-500						
23	oil pressure at idle speed kPa		≥100kPa						
24	Exhaust temp. after turbine °C		≥550						
25	Allowable longitudinal inclination	Front face /aft face	Long term 10/10 short term 30/30						
26	Allowable lateral inclination	Exhaust pipe side/fuel injection pump side	Long term 45/5 short term 45/30						
27	Crankshaft rotating direction (looking fr	rom the free end)			Clockwise				
28	Crankshaft rotating direction (looking fr WWW.Chinatte External dimension (mm)	ngth/Wildth/Height			1525/675/965				

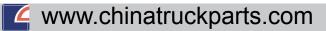


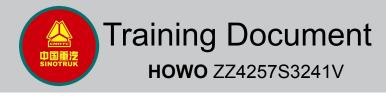
	Name	Model Specification (parameter)- Item	WD615					
Ser No.			64	62	87	69	47	
1	Diesel filter	Туре	Double-stage filter element					
2	Water pump	Туре	Centrifugal (centrifugal-chamber and timing gear chamber in one body)					
		Rated rpm	2585					
		Туре	Gear type (single stage pump for typical, two stage pump on special request)					
3	oil pump	Rated rpm	1896					
		Safety valve opening pressure kPa	1550±150					
	Crankshaft vibration damper	Туре	silicone oil					
4		outside diameter	φ280					
5	Supercharg er	Туре	Exhaust turbine, vaneless, double-pear shaped, full-admission, long and short blades					
		Model	GT42、K29、J90-2、GJ90B					
6	oil filter	Туре	Screw-in, paper filter element, double barrel, parallel connection					
	Thermostat	Туре	Wax element composite					
7		opening temp. °C	80±(71±2)					
		Full-open temp. °C	95(86)					

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	oil cooler	Туре	plate-fin type	
8		By-pass valve opening pressure kPa	600±36	
		Pneumatic test pressure kPa	1500	
	Starter	Туре	DC, self-excitation	
9		Model	KB-24V 5.4kW	
9		Power KW	5.4	
		Voltage V	24	
10	Generator	Туре	Rectifying and voltage regulating together	
10		Model		





		Power KW	750,1000 and 1540
		Voltage V	28
		Туре	Strengthened polyamide material, integral or silicone oil clutch
11	Fan	outside diameter mm	620
		Max. unbalance of fan impeller gcm	30
		Туре	Single-cylinder, piston type, water-cooling
	Air compressor	Cylinder bore mm	90
		Stroke mm	46
		Piston total displacement cm3	293
12		Working pressure kPa	850
		Max. pressure kPa	1000
		Ratio to engine speed	1.25
		Type of lubrication	Pressure lubrication
		Mode of working	Continuous
		Mass kg	12



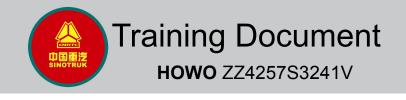


Table 2-2 Main technical specifications of accessories

The basic performance parameters of the main models of WD615 series engines are given in Table 2-1, and the main technical specifications of the accessories are given in Table 2-2.

SECTION 3 FEATURES OF STRUCTURE AND ASSEMBLY AND REPAIR

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