



SUB MACHINE TEST REPORT

The exhaust pollutants from diesel engines of
non-road mobile machinery

Engine Model: WD10G220E21

Family Name: G2WPGSL0973012

Applicant: Weichai Power Co.,Ltd

Test classification: Entrusting Test

Date:

National Motor Vehicle Quality Supervision and Inspection
Center(Chongqing)



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Test Conclusion

Family Name	G2WPGSL0973012	Applicant	Weichai Power Co., Ltd
Manufacturer	Weichai Power Co., Ltd	Date of manufacture	-
Sender	Chenbin	Delivery date	-
Sample quantity	-	Test classification	Entrusting Test
Test basis	Limits and measurement methods for exhaust pollutants from diesel engines of non-road mobile machinery(I、II) (GB20891-2007)	Test items	exhaust pollutants
Test Conclusion	<p>Through test, the values of exhaust pollutants from the sent sample comply with the type approval test limit values of phase I, which are provided in GB20891-2007<< Limits and measurement methods for exhaust pollutants from diesel engines of non-road mobile machinery (I、II)>>.</p> <p style="text-align: right;">Approval date 2011-2-21</p>		
Remark	test object: see in Appendix A		

Approved:

王克伟

Verified:

蒋习军

Master Tester:

朱明

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Appendix A basic parameters

Product model	WD10G220E21	Manufacturer	Weichai Power Co., Ltd
Family name	G2WPGSL0973012	Engine work way	Non-constant
Rated net power (KW)	162	Rated net power speed (r/min)	2200
Maximum net torque (N.m)	920	Maximum net torque speed (r/min)	1400-1600
Low Idle Speed (r/min)	750±50	High Idle Speed (r/min)	2464
Number of cylinders	6	Arrangement of Cylinders	In Line
Distance of cylinder center (mm)	150	Fire Order	1-5-3-6-2-4
Combustion cycle	Four-stroke	Bore×Stroke (mm×mm)	126X130
Separate Displacement (L)	1.621	diesel engines Displacement (L)	9.726
Cooling Type	Coolant Cooling	Coolant Cooling nature	water
Intake type	Turbocharger	Engine Number	-
Combustion chamber type	Open	Type fuel injection system	Pump nozzle
Compression ratio	17±:1	Number of cylinder valves	2
Injection timing	6±1	Maximum exhaust temperature (K)	973
Maximum allowed intake vacuum (kPa)	3.5	Maximum allowed Exhaust Back Pressure (kPa)	6
Rated speed Allowable Power Absorbed by Engine-driven Auxiliaries Equipments (KW)	4/2200	Intermediate speed Power Absorbed by Engine-driven Auxiliaries Equipments (KW)	2/1450
Rated speed corresponding to the amount of oil per stroke mm ³	158	Maximum net torque speed corresponding to the amount of oil per stroke mm ³	171

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Exhaust pollutants control devices

Key configuration of exhaust pollutants	Anti-pollution Devices	Injection Pump Type	BHT6P120R	Injection Pump Manufacturer	LongKou Longbeng Fuel Injection Equipment Co.,Ltd
		Injector Type	KBEL132P110	Injector Manufacturer	BOSCH
		Turbocharger Model	J90S-2	Turbocharger Manufacturer	Shouguang Kangyue Technology CO.,Ltd
		Intercooler Type	--		
		EGR Type	--	EGR Manufacturer	--
	Additional Devices	Catalytic converter type	--	Catalytic Converter Manufacturer	--
		Other system models	--	Manufacturer	--

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Exhaust pollutants control devices

Key configuration of exhaust pollutants	Anti-pollution Devices	Injection Pump Type	BHT6P120R	Injection Pump Manufacturer	LongKou Longbeng Fuel Injection Equipment Co.,Ltd
		Injector Type	KBEL132P110	Injector Manufacturer	BOSCH
		Turbocharger Model	K29	Turbocharger Manufacturer	HUNAN TYEN MACHINERY CO., LTD.
		Intercooler Type	--		
	Additional Devices	EGR Type	--	EGR Manufacturer	--
		Catalytic converter type	--	Catalytic Converter Manufacturer	--
		Other system models	--	Manufacturer	--

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Exhaust pollutants control devices

Key configuration of exhaust pollutants	Anti-pollution Devices	Injection Pump Type	BH6P120011	Injection Pump Manufacturer	Wuxi Weifu High-Technology Co., Ltd.
		Injector Type	KBEL132P110	Injector Manufacturer	BOSCH
		Turbocharger Model	J90S-2	Turbocharger Manufacturer	Shouguang Kangyue Technology CO.,Ltd
		Intercooler Type	--		
		EGR Type	--	EGR Manufacturer	--
	Additional Devices	Catalytic converter type	--	Catalytic Converter Manufacturer	--
		Other system models	--	Manufacturer	--

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Exhaust pollutants control devices

Key configuration of exhaust pollutants	Anti-pollution Devices	Injection Pump Type	BH6P120011	Injection Pump Manufacturer	Wuxi Weifu High-Technology Co., Ltd.
		Injector Type	KBEL132P110	Injector Manufacturer	BOSCH
		Turbocharger Model	K29	Turbocharger Manufacturer	HUNAN TYEN MACHINERY CO., LTD.
		Intercooler Type	---		
	EGR Type	---	EGR Manufacturer	---	
	Additional Devices	Catalytic converter type	---	Catalytic Converter Manufacturer	---
		Other system models	---	Manufacturer	---

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Exhaust pollutants control devices

Key configuration of exhaust pollutants	Anti-pollution Devices	Injection Pump Type	BH6PNQ110R	Injection Pump Manufacturer	LongKou Longbeng Fuel Injection Equipment Co.,Ltd
		Injector Type	CBKEL132P31	Injector Manufacturer	BOSCH
		Turbocharger Model	J90S-2	Turbocharger Manufacturer	Shouguang Kangyue Technology CO.,Ltd
		Intercooler Type	--		
		EGR Type	--	EGR Manufacturer	--
	Additional Devices	Catalytic converter type	--	Catalytic Converter Manufacturer	--
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Exhaust pollutants control devices

Key configuration of exhaust pollutants	Anti-pollution Devices	Injection Pump Type	BH6PNQ110R	Injection Pump Manufacturer	LongKou Longbeng Fuel Injection Equipment Co.,Ltd
		Injector Type	CBKEL132P31	Injector Manufacturer	BOSCH
		Turbocharger Model	K29	Turbocharger Manufacturer	HUNAN TYEN MACHINERY CO., LTD.
		Intercooler Type	--		
	EGR Type	--	EGR Manufacturer	--	
	Additional Devices	Catalytic converter type	--	Catalytic Converter Manufacturer	--
		Other system models	--	Manufacturer	--