

Jinan Engine Works Model Z8V190D-2 Diesel Engine

附表1 Z8V190D-2 型柴油机清洗前后性能对比试验结果

Test conducted at Jinan Engine Works test facility, Dongying China under the supervision of the Jinan Internal Combustion University senior lecturers.

Tests certified by CNACL China National Accreditation Laboratory

A full report is obtainable from BMS Head Office

Before And After The Addition of Fuel Stick To The Fuel Comparison Chart		项目	实测数据 (清洗前/清洗后)					Before/After
KW of power @ 1000 RPM		功率 (kW)	104	150	198	248	300	
Water Temp. Deg. C	Entry Point	冷却 进口	50/49	50/47	50/47	49/50	52/50	
	Exit Point	水温 出口	55/57	56/55	57/55	60/59	62/59	
	Exit Point Of Oil Cooler	(°C) 中冷出口	38/37	38/37	38/37	39/37	40/37	
Oil Temperature Deg. C		机油温度 (°C)	88/90	89/90	88/80	85/82	82/82	
Oil Pressure Mpa	Point Before Filter	机 油 滤前	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	0.72/0.70	
	Point After Filter	压力 滤后	0.60/0.65	0.60/0.65	0.60/0.65	0.60/0.65	0.60/0.65	
		(Mpa) 增压器	0.40/0.30	0.40/0.30	0.40/0.30	0.40/0.30	0.40/0.30	
Exit After Supercharger								
Exhaust Temp. Deg. C		排温 (°C)	370/350	390/377	480/460	543/530	615/600	-2.5%
Fuel Consumption G/kW h		燃油耗 (g/kW.h)	285.0/270.0	265.5/244.9	262.2/241.1	260.6/243.9	249.0/232.6	-6.6%
Lambda		过量空气系数 λ	3.00/3.07	2.35/2.40	1.92/1.87	1.86/1.64	1.23/1.47	
		CO (%)	0.12/0.03	0.25/0.08	0.58/0.10	0.88/0.18	1.01/0.32	-68%
		O ₂ (%)	15.8/14.6	14.6/12.1	14.0/10.2	12.6/8.6	11.6/7.2	-38%
		CO ₂ (%)	2.6/4.8	2.9/6.0	3.5/7.9	4.6/8.9	5.1/9.8	+92%
		HC (ppmNEX)	360/15	336/18	286/26	248/19	217/11	-95%
		NO _x (ppm)	880/926	934/1086	986/1147	996/1212	1007/1267	+26%
		OPAC (%)	23.0/22.8	35.4/36.4	42.2/42.0	58.6/58.1	97.8/66.2	-32%
		K _{value} (/m)	2.64/0.62	3.60/0.82	5.82/1.26	6.75/2.13	8.22/2.52	-69%

注: 柴油机转速为 1000r/min。

