

Construction Vehicles with Diesel Engines

Test vehicle

Form: TCM/FHD3OZ5 (3 ton Forklift)

Engine: Isuzu 4JG2diesel

The total displacement volume: 3,059cc

Measurement equipment: DMS-10 (The Japanese Ministry of Transport specified smoke meter)

Degree of contamination(%)

Measurement State	Without Ionic Combustion Booster	After Ionic Combustion Booster Installation			The rate of Reduction
		One week	Six Weeks	About 400 Hours	
During Engine Start	20.5	17	12.5	5	75%
During Idling	13.0	0.0	0.0	0.0	100%
During Tilt Relief	32.5	32	27.5	22	33%
High Idling	10	-	4	0	100%

Test vehicle

Form: TCM/L40 (Foil loader)

Engine: Mitsubishi 6D24-TL

The total displacement volume: 11,945cc

Measurement equipment: ST100 Black smoke measuring instrument (DS7)

	1 st time	2 nd time	3 rd time	4 th time	5 th time	6 th time
Without Ionic Combustion Booster	30%	26%	30%	30%	36%	30.4%
After Ionic Combustion Booster Installation	6%	6%	8%	12%	6%	7.6%

By installing the Ionic Combustion Booster to Diesel engines, black smoke is usually reduced by 50-75%