



EPA Tier 3 Emission Data
Fire Pump NSPS Compliant

CFP7E-F40 Fire Pump Driver

Type: 4 Cycle; In-Line; 6 Cylinder
Aspiration: Turbocharged, Charge Air Cooled

15 PPM Diesel Fuel																	
RPM	BHP	Fuel Consumption		D2 Cycle Exhaust Emissions										Exhaust			
		Gal/Hr	L/hr	Grams per BHP - HR					Grams per kW - HR					Temperature		Gas Flow	
				NMHC	NOx	NMHC+NOx	CO	PM	NMHC	NOx	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
1470	192	9.9	37.5	0.062	2.544	2.605	1.193	0.111	0.083	3.411	3.494	1.600	0.149	954	512	1055	498
1760	220	11.4	43.2											911	488	1219	575
1900	204	10.6	40.1											853	456	1218	575
2100	215	11.3	42.8											874	468	1363	643
2350	216	11.6	43.9											897	481	1500	708
2600	219	12.3	46.6											987	531	1650	779
2700	160	9.0	34.1											977	525	1518	716

The emissions values above are based on CARB approved calculations for converting EPA (500 ppm) fuel to CARB (15 ppm) fuel.

300-4000 PPM Diesel Fuel																	
RPM	BHP	Fuel Consumption		D2 Cycle Exhaust Emissions										Exhaust			
		Gal/Hr	L/hr	Grams per BHP - HR					Grams per kW - HR					Temperature		Gas Flow	
				NMHC	NOx	NMHC+NOx	CO	PM	NMHC	NOx	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
1470	192	9.9	37.5	0.075	2.685	2.759	1.193	0.127	0.1	3.600	3.700	1.600	0.170	954	512	1055	498
1760	220	11.4	43.2											911	488	1219	575
1900	204	10.6	40.1											853	456	1218	575
2100	215	11.3	42.8											874	468	1363	643
2350	216	11.6	43.9											897	481	1500	708
2600	219	12.3	46.6											987	531	1650	779
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QSX15 Base Model Manufactured by Cummins Inc.
- Using fuel rating 91421

Reference EPA Standard Engine Family: 9CEXL0409AAB
Reference CARB Executive Order: U-R-002-0476

No special options needed to meet current regulation emissions for all 50 states

Test Methods:

EPA/CARB Nonroad emissions recorded per 40CFR89 (ref. ISO8178-1) and weighted at load points prescribed in Subpart E, Appendix A, for Constant Speed Engines (ref. ISO8178-4, D2).

Diesel Fuel Specifications:

Cetane Number: 40-48
Reference: ASTM D975 No. 2-D

Reference Conditions:

Air Inlet Temperature: 25°C (77°F)
Fuel Inlet Temperature: 40°C (104°F)
Barometric Pressure: 100 kPa (29.53 in Hg)
Humidity: 10.7 g/kg (75 grains H₂O/lb) of dry air; required for NOx correction

Restrictions: Intake Restriction set to a maximum allowable limit for clean filter; Exhaust Back Pressure set to maximum allowable limit.

Tests conducted using alternate test methods, instrumentation, fuel or reference conditions can yield different results.