



EPA Tier 1 Emission Data
Fire Pump NSPS Compliant

CFP39-F15 Fire Pump Driver

Type: 4 Cycle; In-Line; 4 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	CO	PM	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
1760	68	3.5	13.2	5.927	0.701	0.176	7.949	0.940	0.237	780	416	433	204
2100	88	4.7	17.8							930	499	577	272
2350	98	5.5	20.8							1010	543	667	315
2600	99	5.8	22.0							1075	579	731	345

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

300-500 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	CO	PM	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
1760	68	3.5	13.2	6.465	0.701	0.201	8.670	0.940	0.270	780	416	433	204
2100	88	4.7	17.8							930	499	577	272
2350	98	5.5	20.8							1010	543	667	315
2600	99	5.8	22.0							1075	579	731	345

B3.9T Base Model Manufactured by Cummins Inc.
No spec - Using fuel rating 90348

Reference EPA Standard Engine Family: 2CEXL0239ABA

No special options needed to meet current emission regulations for 49 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.

Revision:

May 2008: Revised EPA engine family number