



**Fire  
Power**

EPA Tier 1 Emission Data  
Fire Pump NSPS Compliant

**CFP59-F45 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	CO	PM	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
2100	150	8.0	30.3	4.990	0.597	0.118	6.692	0.800	0.158	802	428	855	404
2350	158	8.9	33.7							783	417	981	463
2600	153	8.9	33.9							771	411	1080	510

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
2100	150	8.0	30.3	5.444	0.597	0.134	7.300	0.800	0.180	802	428	855	404
2350	158	8.9	33.7							783	417	981	463
2600	153	8.9	33.9							771	411	1080	510

B5.9TAA Base Model Manufactured by Cummins Inc.  
- Using fuel rating 91093

Reference EPA Standard Engine Family: 2CEXL0359ABA

**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 H<sub>2</sub>O/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

Revision Date 23MAY08