



**Fire  
Power**

EPA Tier 2 Emission Data  
Fire Pump NSPS Compliant

## CFP83-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	CO	PM	NMHC+NOx	CO	PM	°F	°C	CFM	L/sec
1470	247	9.5	36.0	3.778	0.447	0.059	5.067	0.600	0.079	971	522	1247	589
1760	288	14.5	54.9							952	511	1632	770

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
1470	247	9.5	36.0	4.109	0.447	0.067	5.510	0.600	0.090	971	522	1247	589
1760	288	14.5	54.9							952	511	1632	770

C8.3TAA Base Model Manufactured by Cummins Inc.

- Using fuel rating 90940

Reference EPA Standard Engine Family: D413035GX02

**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 H<sub>2</sub>O/lb) of dry air; required for NO<sub>x</sub> 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.**