



California ATCM Tier 2 Emission Data
EPA Tier 2 Emission Data

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 | | | |
| | | | | Grams per BHP - HR | | | | | Grams per kW - HR | | | | | Temperature | | Gas Flow | |
| | | Gal/Hr | L/hr | NMHC | NOx | NMHC+NOx | CO | PM | NMHC | NOx | NMHC+NOx | CO | PM | °F | °C | CFM | L/sec |
| 1470 | 247 | 9.5 | 36.0 | 0.086 | 3.692 | 3.778 | 0.447 | 0.059 | 0.116 | 4.951 | 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 | | | |
| | | | | Grams per BHP - HR | | | | | Grams per kW - HR | | | | | Temperature | | Gas Flow | |
| | | Gal/Hr | L/hr | NMHC | NOx | NMHC+NOx | CO | PM | NMHC | NOx | NMHC+NOx | CO | PM | °F | °C | CFM | L/sec |
| 1470 | 247 | 9.5 | 36.0 | 0.104 | 4.004 | 4.109 | 0.447 | 0.067 | 0.14 | 5.370 | 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 FR90940

Reference EPA Standard Engine Family: 4CEXL0505ACB
Reference CARB Executive Order: U-R-002-0240

No special options needed to meet current emission regulations 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.

Revision:

April 2008 - Listed NMHC and NOx separately
May 2008 - Corrected EPA Family Number
May 2008 - Added CARB Executive Order reference