

State of California  
AIR RESOURCES BOARD

## EXECUTIVE ORDER A-21-84

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1993 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
PCE0505FAAX (413B)	8.3 (505)	Smoke Puff Limiter Turbocharger Charge Air Cooler
PCE0505FAB0 (413C)	8.3 (505)	Smoke Puff Limiter Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The certification emission standards for these engine families in grams per brake-horsepower-hour are as follows:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The certification emission values for these engine families in grams per brake-horsepower-hour are as follows:

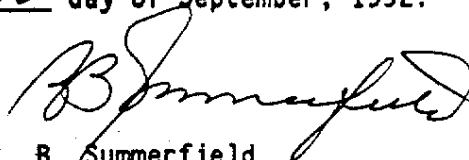
<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
PCE0505FAAX (413B)	0.3	1.3	4.3	0.24
PCE0505FAB0 (413C)	0.5	1.5	4.4	0.25

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.)

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 20<sup>th</sup> day of September, 1992.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family 413B PCE0505FAAX

Liter (CID) 8.3 (505) Fuel Type Diesel Engine Config. I-6

Exhaust ECS & Special Features (ECM/PCM, PTOX, IFI, etc.) SPL (TC, CAC)  
(Use abbreviations per SAE J1930 May91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm <sup>3</sup> /stroke (lbs/hr)	Fuel Pump & Injector(1) P/N	ECM/PCM P/N	Part.Trap/ Catalyst P/N
C8.3-300 (1406)	300 @ 2000	151 (111.7)	(1)3920140 3916626 3921770	NA	NA
C8.3-275 (1262)	275 @ 2000	148 (99.6)	(1)3919058 3916627 3916628 3916629 3917089 3921771 3921772 3921773 3921775 3921970	NA	NA
C8.3-275 (1262)	275 @ 1800	163 (99.0)	(1)SAME SAME	NA	NA
C8.3-250 (1262)	250 @ 2400	125 (101.2)	(1)SAME SAME	NA	NA
C8.3-250 (1262)	250 @ 2300	125 (97.0)	(1)SAME SAME	NA	NA
C8.3-250 (1262)	250 @ 2200	127 (93.9)	(1)SAME SAME	NA	NA
C8.3-210 (1263)	210 @ 2400	102 (82.8)	(1)3919058 3917088 3921774	NA	NA

Revisions:

1993 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
 HEAVY-DUTY DIESEL ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family 413C PCE0505FAB0

Liter (CID) 8.3 (505) Fuel Type Diesel Engine Config. I-6

Exhaust ECS & Special Features (ECM/PCM, PTOX, IFI, etc.) SPL (TC, CAC)  
 (Use abbreviations per SAE J1930 May91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm <sup>3</sup> /stroke (lbs/hr)	Fuel Pump & Injector(I) P/N	ECM/PCM P/N	Part.Trap/ Catalyst P/N
C8.3-225 (1439)	225 @ 2200	115 (85.4)	(1)3921421 3921971 3921972	NA	NA
C8.3-210	210 @ 2200	103 (76.7)	(1)SAME SAME	NA	NA

Revisions: