

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-116

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. 1995 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

| <u>Engine Family</u>   | <u>Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems and Special Features</u>       |
|------------------------|------------------------------|--|
| SCE505D6DABW<br>(413G) | 8.3 (505)                    | Turbocharger<br>Charge Air Cooler<br>Oxidation Catalytic Converter |

Engine models and codes are listed on attachments.

The exhaust certification emission standards for this engine family 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                    | 0.10                |

The exhaust certification emission values for this engine family 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> |
|------------------------|---------------------------|------------------------|------------------------|---------------------|
| SCE505D6DABW<br>(413G) | 0.3                       | 0.4                    | 4.8                    | 0.09                |

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.).

CUMMINS ENGINE COMPANY, INC.

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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 5<sup>th</sup> day of December, 1994.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family (413G)SCE505D6DABW  
 Displacement: 8.3 Liters / 505 Cubic Inches  
 Maximum Rated Power: 250 HP @ 2200 RPM Engine Configuration: I-6  
 Ignition: Compression X Compression with Glow Plug \_\_\_\_\_ Spark \_\_\_\_\_  
 Fuel Type(s): Dedicated \_\_\_\_\_ Flex-Fuel \_\_\_\_\_ Dual-Fuel \_\_\_\_\_ Diesel X M100 \_\_\_\_\_ M85 \_\_\_\_\_  
 CNG \_\_\_\_\_ LNG \_\_\_\_\_ LPG \_\_\_\_\_ Other (specify) \_\_\_\_\_  
 Diesel Cert Fuel: 13 CCR 2282 \_\_\_\_\_ 40 CFR 86.1313-90 \_\_\_\_\_ 40 CFR 86.1313-94 X  
 Primary Intended Service Class: LHD \_\_\_\_\_ MHD X HHD \_\_\_\_\_ Urban Bus \_\_\_\_\_  
 Exhaust ECS (include MFI, TC, CAC): \_\_\_\_\_ OC (TC, CAC) \_\_\_\_\_  
 (use abbreviations per SAE J1930 SEP91)

| Engine Model<br>(Eng Code) | Rated HP<br>@ RPM | Fuel Rate<br>@ Rated HP<br>mm3 / stroke<br>(lbs/hr) | Fuel Pump<br>& Injector<br>Part No.    | ECM/PCM<br>Part No. | EGR<br>Valve<br>Part No. | PTOX /<br>Catalytic<br>Converter<br>Part No. |
|----------------------------|-------------------|---|--|---------------------|--------------------------|--|
| C8.3-250<br>(1569)         | 250 @ 2200        | 125 (92.5)  | FP:3922471<br>IN:3922913<br>IN:3926117 | N/A                 | N/A                      | 3926265                                      |
| C8.3-225<br>(1563)         | 225 @ 2200        | 113 (84)  | FP:3922424<br>IN:3922907               | N/A                 | N/A                      | 3926265                                      |
| C8.3-210<br>(1563)         | 210 @ 2200        | 106 (79)  | FP:3922426<br>IN:3922907               | N/A                 | N/A                      | 3926265                                      |

Date Issued:

Revisions: