

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-176

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-45-9;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1997 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>
VCE505D6DABW (413G)	8.3	505	Charge Air Cooler Turbocharger Oxidation Catalytic Converter

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake-horsepower-hour:

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VCE505D6DABW (413G)	0.3	1.0	4.5	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.).

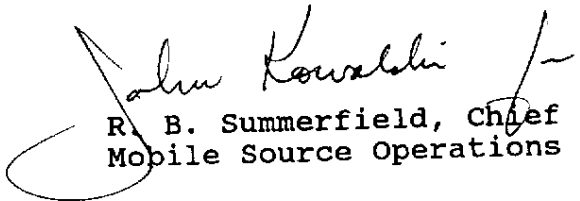
CUMMINS ENGINE COMPANY, INC.

EXECUTIVE ORDER A-21-176
(Page 2 of 2)

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 23rd day of December 1996.


R. B. Summerfield, Chief
Mobile Source Operations Division

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family (413G) VCE505D6DABW
 Displacement: / 8.3 Liters / 505 Cubic Inches
 Maximum Rated Power: 225 HP @ 2200 RPM Engine Configuration: I-6
 Ignition: Compression X Compression with Glow Plug Spark
 Fuel Type(s): Dedicated X 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 (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
C8.3-225 (1563)	225 @ 2200	113 (84)	FP:3922424 IN:3922907	N/A	N/A	3926265 3929434 3932434
C8.3-210 (1563)	210 @ 2200	106 (79)	FP:3922426 IN:3922907	N/A	N/A	3926265 3929434 3932434
C8.3-225 (2101)	225 @ 2200	113(84)	FP:3922424 IN:3928387	N/A	N/A	3926265 3929434 3932434
C8.3-210 (2101)	210 @ 2200	106(79)	FP:3922426 IN:3928387	N/A	N/A	3926265 3929434 3932434

Date Issued:

Revisions: