State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-175

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

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
VCE505D6DAAA (413E)	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:

Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
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:

Engine Family	Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
VCE505D6DAAA (413E)	0.1	0.7	4.6	[illegible]

BE IT FURTHER RESOLVED: That for the listed engine models, [illegible] ion manufacturer has submitted the materials to demonstrate cer[illegible] compliance with the Board's emission control system warranty [illegible] et provisions (Title 13, California Code of Regulations, Sectio[illegible] 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 23rd day of December 1996.

John Kowalski for

R. B. Summerfield, Chief
Mobile Source Operations Division

E.O.# A-21-175

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

Manufacturer Cummins Engine Company, Inc. Engine Family (413E) VCE505D6DAAA

Displacement: / 8.3 Liters / 505 Cubic Inches

Maximum Rated Power: 306 HP @ 2400 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.
C8.3-300 (1564)	300 @ 2200	154 (114.0)	FP:3922425 IN:3922913 IN:3926117	N/A	N/A	3926265 3929434 3932434
C8.3-300 (2102)	300 @ 2200	154 (114.0)	FP:3922425 IN:3928384	N/A	N/A	3926265 3929434 3932434
C8.3-325 (2169)	306 @ 2400	150 (121)	FP:3931335 IN:3931262	N/A	N/A	3926265 3929434 3932434

Date Issued:

Revisions:

SUBMITTED
OCT 28 1996