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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

Fuel Type: Dies			Exhaust Emission Control Systems and Special Features
Engine Family VCE505D6DAAA (413E)	<u>Liters</u> 8.3	(CUDIC 2	Systems and oper Charge Air Cooler Turbocharger Oxidation Catalytic Converter

(4)

Engine models and codes are listed on attachments. The following are the certification exhaust emission standards tor this engine family in grams per brake-horsepower-hour:

Total	Carbon <u>Monoxide</u>	Nitrogen 	Part include es
<u>Hydrocarbons</u>	15.5	5.0	0. (*)
	2 U + U - U		

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

engine feme i	-	Carbon	Nitrogen	n-set i	5
Engine	Total Hydrocarbons	ar	Oxides	<u>Parti</u>	4
<u>Family</u>	<u></u>	0.7	4.6	C	
VCE505D6DAAA	0.1	0.7			

(413E)

BE IT FURTHER RESOLVED: That for the listed engine models, manufacturer has submitted the materials to demonstrate cert ion compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section ssi 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 3 day of December 1996.

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R. B. Summerfield, Chiet Mobile Source Operations Division

E.O.# A-21-175

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199<u>7</u> AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer <u>Cur</u>	nmins Engine Co	<u>mpany, Inc.</u> Eng	gine Family(413E)VCE5051	D6DAAA	. <u> </u>
	nent: <u>/ 8.3</u>				<u> </u>	_Cubic Inches
Maximum Rated Power: 306 HP @ 2400 RPM Engine Configuration: 1-6						
Ignition: Compression X. Compression with Glow Plug_ Spark_						
Fuel Type(s): Dedicated X Flex-Fuel_ Dual-Fuel_ Diesel X M100_ M85_					M85_	
CNGLPGOther (specify)						
Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94_X						
Primary Intended	Service Class: Ll	HD_	MHD <u>X</u>	HHD	Ur	ban Bus_
Exhaust ECS (include.MFI, TC, CAC): OC (TC, CAC) (use abbreviations per SAE J1930 SEP91)						
				ns per SAE J195		DTPOV (
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
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Date Issued:

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Revisions:

SURMITTED OCT 2 8 1996