State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-189

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	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
VCE359DJDARA (403J)	5.9	359	Charge Air Cooler Turbocharger Powertrain Control Module

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 <u>Hydrocarbons</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:

Engine	Total	Carbon	Nitrogen	Particulates
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	
VCE359DJDARA (403J)	0.2	0.8	4.9	0.10

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.

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 $9^{\frac{1}{2}}$ day of January 1997.

R. B. Summerfield, Chief
Mobile Source Operations Division

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

Manufacturer <u>Cu</u>	immins Engine Cor	npany, Inc. Eng	ine Family	(403J)VCE359	DJDARA	
Displace	ement:/ 5.9	_Liters				Cubic Inches
Maximum Rated	Power: <u>275</u>	HP@ <u>2500</u> F	RРМ		ne Configurat	
Ignition: Compre		Compre	ssion with Glow Pl	ug		Spark
Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Diesel X M100 M85					185	
CNG_ LNG_ LPG_ Other (specify)						
Diesel Cert Fuel:	13 CCR 2282	4	0 CFR 86.1313-90		40 CFR 86 11	813.04 Y
Diesel Cert Fuel: 13 CCR 2282 Primary Intended Service Class: LHD_			MHD <u>X</u>			
Exhaust ECS (inc	lude.MFI, TC, CA	C):P	CM (TC, CAC)		0102	ar 13 u s
(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.
98 B175 (2075)	184@ 2300	80 (62)	FP:3943162 FP:3942754 IN:3943205	3942335 3942331 3942338	N/A	N/A
CSB 275 (2080)	275 @ 2500	119 (101)	FP:3943162 FP:3942754 IN:3943201 IN:3943159	3942331 3942338 3942335	N/A	N/A
Date Issued:				<u> </u>		
Revisions:				1	1	