## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-21-188

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
VCE359D6DAAA (403G)	5.9	359	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	Carbon	Nitrogen	<u>Particulates</u>	
<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides		
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	<u>Particulates</u>
Family	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	
VCE359D6DAAA (403G)	0.3	1.7	4.8	0.07

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 97 day of January 1997.

Raphael Supposety

[Market 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 Cur	nmins Engine Co	mpany, Inc. En	gine Family	(403G)	VCE359D6DA	AA
	nent:/5.9			`		_Cubic Inches
Maximum Rated P	ower: 175	HP @2500	RPM	En	gine Configura	tion: <u>I-6</u>
Ignition: Compres	ssion <u>X</u>	Compr	ession with Glow	Plug_		Spark
Fuel Type(s): Dec	dicated <u>\( \) F</u>	lex-Fuel	oual-Fuel_	Diesel <u>X</u>	M100_	M85
		CNG_ LNC	LPG	Other (speci	fy)	<u></u>
Diesel Cert Fuel:	13 CCR 2282	_	40 CFR 86.1313-	90	40 CFR 86.1	1313-94 <u>X</u>
Primary Intended	Service Class: L	HD	MHD <u>X</u>	HHD	_ Uri	oan Bus_
Exhaust ECS (incl	lude.MFI, TC, C	AC):	OC (TC, CAC) (use abbreviation	ns per SAE J193	30 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.
B5.9-160 (1959)	160 @ 2500	75 (63)	FP:3921918 IN:3926817 IN:3922521	N/A	N/A	3926233 3929433 3932434
B5.9-175 (1550)	175 @ 2500	83 (70)	FP:3921920 IN:3926818 IN:3922518 FP:3928146	N/A	N/A	3926233 3929433 3932434
Date Issued:		1				<u> </u>
Revisions:						