State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-190

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
VCE359D6DABW (403F)	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>	<u>Oxides</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	<u>Particulates</u>
Family	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	
VCE359D6DABW (403F)	0.2	0.7	4.3	0.08

BE 17 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.)

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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 ______ day of January 1997.

Rephart Surrowitz for 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 Cun	nmins Engine Comp	pany, Inc. Engin	e Family(4	03F) VCE359E	6DABW	
	nent: / 5.9			_	/ 359	Cubic Inches
Maximum Rated Power: 210 HP @ 2500 RPM Engine Configuration: I-6						
Ignition: Compres			ion with Glow Plu	g		Spark_
Fuel Type(s): Dedicated 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: LHI) N	инD <u>X</u>	HHD_	Urba	in Bus_
Exhaust ECS (incl	lude.MFI, TC, CAC	C):O(C (TC, CAC)			
(use abbreviations per SAE J1930 SEP91)						
Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm3 / stroke (los/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
B5.9-230 (1553)	210 @ 2500	96 (81)	FP:3928150 FP:3921925 IN:3922509 IN:3927320	N/A	N/A	3926233 3929433 3932434
B5.9-210 (1552)	210 @ 2500	97 (82)	FP:3921923 FP:3924903 IN:3926820 FP:3928148	N/A	N/A	3926233 3929433 3932434
B5.9-190 (1551)	185 @ 2500	87 (73)	FP:3921922 IN:3926819 FP:3928147	N/A	N/A	3926233 3929433 3932434
B5.9-180 (2268)	180@ 2500	88 (74)	FP:3932179 IN:3926818	N/A	N/A	3926233 3929433 3932434
Date Issued:	<u></u>		1			
Revisions:						