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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-146

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. 1996 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: Compressed Natural Gas or Liquid Natural Gas (CNG or ENG)

Engine Family	<u>Liters</u>	<u>(Cubic Inches)</u>	Exhaust Emission Control Systems and Special Features
TCE359D1CAAW (493A)	5.9	(359)	Oxidation Catalytic Converter Turbocharger Charge Air Cooler Engine Control Module Heated Oxygen Sensor

Engine models and codes are listed on attachments.

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

Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
Hydro <u>carbons</u>	<u>Monoxide</u>	Oxides	
1.2	15.5	5.0	0.10

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

Engine	Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
Fami <u>ly</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
TCE359D1CAAW (493A)	0.6	8.5	0.9	0.02

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.). 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. \mathcal{H}

Executed at El Monte, California this 27 day of November 1995.

R. B. Summerfield Assistant Division Chief Mobile Source Division

E.O.# A-ZI- 146

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199<u>6</u> AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

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Manufacturer <u>Cun</u>	nmins Engine Co	mpany, Inc. Eng	gine Family	(493A) TCE359	DICAAW		
	nent: <u>/ 5.9</u>				/ 359	_Cubic Inches	
Maximum Rated Power: <u>195</u> HP @ <u>2800</u> RPM Engine Configuration: <u>I-6</u>							
Ignition: Compression Compression with Glow Plug Spark X							
Fuel Type(s): Dedicated X Flex-Fuel_ Dual-Fuel_ Diesel_ M100_ M85_						85	
Tuer Type(s). Dee	······- <u>-</u>		G <u>X</u> LPG_	Other (spe	cify)		
Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94							
Primary Intended S		HD	MHD <u>X</u>	HHD	Urb	an Bus_	
		AC): <u>BCM</u>	OC, (TC, CAC)	HOZS			
			(use abbreviatio	ns per SAE J193	· · · · · · · · · · · · · · · · · · ·		
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.	
B5.9-195G (1683)	195 @ 2800	(70)	N/A	3922724	N/A	3927832	
					1		
0 -			n(ration) in	AV USE TH	E FOLLOW	ig PART NUMBERS:	
(K) Fue	l systems	FOR LNG A			-		
	0 30 88	27/209 4	a system				
	\$ 3096	641/2NG Fa		-			
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Date Issued:							
Revisions:		ļ				<u> </u>	

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