State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-147

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 LNG)

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TCE359D1CARW (493B)	5.9	(359)	Turbocharger Charge Air Cooler Powertrain 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>
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
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>	
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>		
TCE359D1CARW (493B)	1.2	8.5	1.5	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.).

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 $\frac{27}{20}$ day of November 1995.

R. B. Summerfield
Assistant Division Chief Mobile Source Division

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1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer <u>Cu</u>	ımmins Engine C	Company, Inc. En	igine Family	(493B) TCE35	59D1CARW	
	Displac	cement:/	_Liters	·	_	/ 359 Cubic Inche
Maximum Rated	Power: 195	_HP @ <u>2800</u>	RPM		Engine (Configuration: <u>I-6</u>
Ignition: Compre	ession_	Compr	ession with Glow	Plug_		Spark_X
Fuel Type(s): De	dicated 🔏	Flex-Fuel_ I	Dual-Fuel	Diesel_	M100_ 1	M85_
		CNGX LN	IG <u>X</u> LPG_	_ Other (sp	ecify)	
Diesel Cert Fuel:	Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94					
Primary Intended	Service Class: I	HD_	MHD <u>X</u>	HHD	Ur	ban Bus
Exhaust ECS (inc	lude.MFI, TC, C	AC):	PCM (TC, CAC) (use abbreviation		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.
B5.9-195G (2035)	195 @ 2800	(70)	N/Æ	3922724	N/A	N/A
(€) Ful	System Fo ① 308882 ② 30966	R LNG ABPli 7 49	estion my	WE THE F	proming b	get mulbes!
Date Issued:						
Revisions:					1	