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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>
Hydrocarbons	<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>
Famil <u>y</u>	Hyd <u>rocarbons</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 27 day of November 1995.

Konnlihi a

R. B. Summerfield Assistant Division Chief Mobile Source Division

E.O.# A-21-147

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Manufacturer Cut	nmins Engine Co	<u>mpany, Inc.</u> Eng	gine Family	(493B) TCE359	DICARW	
		ement: <u>/ 5.9</u>		·		<u>359</u> Cubic Inche
Maximum Rated P	-	_HP @			Engine C	onfiguration: <u>I-6</u>
Ignition: Compres			ession with Glow	Plug		Spark <u>X</u>
Fuel Type(s): Dec		-	Dual-Fuel		1100_ M	85
Fuel Type(s): Dec		CNG <u>X</u> LN			cify)	
	10 000 2002		40 CFR 86.1313-9			
Diesel Cert Fuel:				HHD		
Primary Intended	Service Class: L	HD_		_		
Exhaust ECS (incl	lude.MFI, TC, C.	AC):	(use abbreviation)	ns per SAE J193	0 SEP91)	
	······································	Fuel Rate	Fuel Pump		EGR	PTOX /
Engine Model	Rated HP	@ Rated HP	& Injector	ECM/PCM	Valve	Catalytic
(Eng Code)	@ RPM	mm3 / stroke	Part No.	Part No.	Part No.	Converter Part No.
	<u> </u>	(lbs/hr)				
B5.9-195G	195@2800	(70)	N/A	3922724	N/A	N/A
(2035)						
	_	A IN ARPL	itation may	WE THE F	blowing p	er number:
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