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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-160

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: Diesel

Engine Family	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control <u>Systems and Special Features</u>
TCE661EJDARC (353I)	10.8	661	Charge Air Cooler Turbocharger Powertrain Control Module

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>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
TCE661EJDARC (353I)	0.1	0.7	4.7	0.06

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 _

P day of May 1996. R. B. Summerfield

Assistant Division Chief Mobile Source Division

E.O. # A-2H160

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

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Manufacturer _	Cummins	Engine	Company,	Inc.		Engine	Family	(3531)	TCE661EJ	DARC
Displacement:			10.8	_Liters	š			/ 661	_Cubic :	Inches
Maximum Rated	Power:	450		нь б	1800	_RPM	Engine	Configu	ration:	<u>1-6</u>
Ignition: Com	pression	<u>x</u>	Compre	ssion (with Gl	ow Plug			Spark	
Fuel Type(s):	Dedicated	1 <u>×</u> F1	.ex-Fuel	Dua	l-Fuel	Di	.esel <u>X</u>	міо	м	85
	CNG	LNG	LPG	Othe	er (spe	cify)				
Diesel Cert Fu	el: 13 CC	R 2282		40 CFF	86.131	13-90		40 CFR	86.1313	-94 <u>X</u>
Primary Intende	ed Service	Class:	LHD	-	MHD	_ н	HD X	Ū	ban Bus	
Exhaust ECS (i	nclude.MF1	, тс, с	CAC):			CAC ations p	er SAE	J1930 S	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.
M11-450E+ (2178)	450 @ 1800	236 (143)	3095040	3090528 3096662	N/A	N/A
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Date Issued:

Revisions: