

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-168

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

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
VCE855EJDATW (093W)	14.0	855	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:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</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:

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
VCE855EJDATW (093W)	0.3	0.9	4.5	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.).

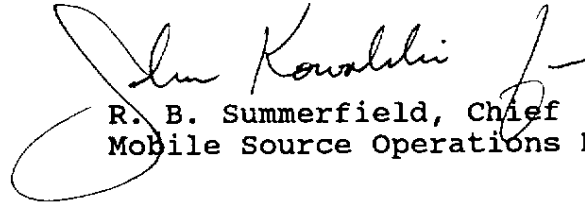
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 23<sup>rd</sup> day of December 1996.



R. B. Summerfield, Chief  
Mobile Source Operations Division

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family (093W) VCE855EJDATW  
 Displacement:                      / 14 Liters                      / 855 Cubic Inches  
 Maximum Rated Power: 525 HP @ 1800 RPM Engine Configuration: I-6  
 Ignition: Compression X Compression with Glow Plug                      Spark                       
 Fuel Type(s): Dedicated X 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: LHD                      MHD                      HHD X Urban Bus                       
 Exhaust ECS (include MFI, TC, CAC): PCM (TC, CAC)  
 (use abbreviations per SAE J1930 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.
N14-525E+ (2025)	525 @ 1800	288 (175.1)	3095086	3090528 3096662	N/A	N/A
N14-500E+ (2025)	505 @ 1800	272 (165.3)	Same	Same	N/A	N/A
N14-460E+ (2025)	480 @ 1800	255 (154.9)	Same	Same	N/A	N/A
N14-435E+ (2025)	450 @ 1800	237 (143.8)	Same	Same	N/A	N/A
N14-435E+ (2025)	435 @ 1800	229 (138.8)	Same	Same	N/A	N/A
N14-435E+ (2025)	448 @ 1800	236 (143.3)	Same	Same	N/A	N/A
N14-435 ESP+ (2025)	435 @ 1800	229 (138.8)	Same	Same	N/A	N/A
N14-500E+ (2025)	505 @ 1900	259 (166.0)	Same	Same	N/A	N/A
N14-460E+ (2025)	465 @ 1800	243 (147.4)	Same	Same	N/A	N/A
N14-410E- (2025)	427 @ 1800	231 (136.5)	Same	Same	N/A	N/A

Date Issued:

Revisions:

SUBMITTED  
OCT 04 1996