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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-288

Relating to Certification of New Medium-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;

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and the Cummins Engine Company, Inc. and any modifications thereof to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the following diesel-cycle engines produced by the manufacturer are certified for medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) from 8,501 to 14,000 pounds:

Model-Year: 2001

Fuel Type: Diesel

Engine Family	Engine Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems and Special Features
1CEXA0359BAZ (403Z)	5.9 (359)	Turbocharger Charge Air Cooler Powertrain Control Module

Engine models and codes are listed on attachments.

BE IT ORDERED AND RESOLVED: That the following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour under the Federal Test Procedure ("FTP") (Title 13, California Code of Regulations, Section 1956.8):

	Non-Methane Hydrocarbons plus Nitrogen Oxides	Carbon Monoxide	Particulate Matter
"FTP"	3.9	14.4	0.10

BE IT FURTHER RESOLVED: That pursuant to the Settlement Agreement and any modifications thereof, the aforementioned engine family is also subject to the following emission standards, in grams per brake horsepower-hour, under the EURO III tests in the Settlement Agreement, and a "Not-to-Exceed" nitrogen oxides emission standard of 5.0 grams per brake horsepower-hour:

	Total <u>Hydrocarbons</u>	Carbon Monoxide	Nitrogen Oxides	Pa	rticulate Matter
"EURO III"	1.3	15.5	4.0	1	0.10

BE IT FURTHER RESOLVED: That the following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

	Total	Carbon	Nitrogen	NMHC +	Particulate
•	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>NOx</u>	Matter
"FTP"	n/a	0.1	n/a	3.7	0.08
"EURO III"	0.03	0.3	3.6	n/a	0.06

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles from 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicles, set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed engine models comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed engine models comply with the on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1 ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

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.).

BE IT FUTHER RESOLVED: That the aforementioned engine family has been conditionally certified subject to the following conditions:

- 1. The Settlement Agreement is in effect.
- 2. The manufacturer is in compliance with all certification requirements of the Settlement Agreement.

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 13⁷⁷⁴ day of December 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

Epgine Model S mary Form

Manufacturer: Cummins Engine Company, Inc.

Engine category: On-highway HDDE

EPA Engine Family: 1CEXA0359BAZ

Mfr Family Name: 403Z

Process Code: New Submission

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	PCM, TC, CAC	PCM, TC, CAC	PCM, TC, CAC	PCM, TC, CAC	POM, TC, CAC	PCM, TC, CAC							Andrews Andrews and the Andrews and An					CO parties minuted installed and the property of the company of th				
8.Fuel Rate: (lbs/hr)@peak torque	48.2	52.7	48.2	48.2	52.7	48.2							independent of the first state that the first state of the first state		Colorent Street, Married Colorent Street, Married Street, Marr							
7.Fuel Rate: mm/stroke@peak torque	68	97.7	68	89	3 Z Z 6	88							A distribution of the contract		And the special desirability of the special desirability o			ATTACAMENT ATTACAMENT TO				
6.Torque @ RPM (SEA Gross)	460@1600	505@1600	460@1600	460@1600	505@1600	460@1600) office of the control of the contr			ACTIVITY OF THE PROPERTY OF TH				
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	93.5	97.5	93.5	93.5	97.5	93.5												THE COLUMN TO SHEET WHEN THE SHEET WAS A S				
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	103	201	103	103	107	103			THE COMPANY OF THE CONTRACT O									an beautiful and a second a second and a second a second and a second a second and a second and a second and				
3.BHP@RPM (SAE Gross)	235@2700	245@2700	235@2700	235@2700	245@2700	235@2700																
2.Engine Model	SB 235	ISB 245	SB 235	ISB 235	ISB 245	ISB 235										-				the court of court free designation and the collection and the collect		
1.Engine Code	2866;FR90430	2907;FR90791	2905;FR90789	2903;FR90787	2495;FR90425	2497;FR90427		And the second s			THE RESERVE THE PROPERTY OF TH							Activation of the least of the		edigina asaminan periodi agaram ya pingape in indin ina pendiginga pagapagang pendigingan pendigingan pendigin		