State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-222

Relating to Certification of New Heavy-Duty Engines and Vehicles

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board at Sections $\underline{43}100$, $\underline{43}101$, and $\underline{43}102$ of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned at Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9; and

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

IT IS ORDERED AND RESOLVED: That the following 1999 model-year Cummins Engine Company, Inc. 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

	Disp	acement	Exhaust Emission Control
Engine Family	<u>Liters</u>	<u>Cubic Inches</u>	Systems and Special Features
XCEXH0505CAC (413J)	8.3	505	Turbocharger Charge Air Cooler Powertrain Control Module

The 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") for Heavy-Duty Diesel Engines (Title 13, California Code of Regulations, Section 1956.8):

	Total	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
"FTP"	1.3	15.5	4.0	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 7.0 grams per brake horsepower-hour:

	Total	Carbon	Nitrogen	Particulate
	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
"EURO III"	1.3	15.5	6.0	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	Particulate
	Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	<u>Matter</u>
"FTP"	0.3	1.0	3.8	0.09
"EURO III"		0.3	4.8	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, Sections 2035 et seq.).

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

The Settlement Agreement is in effect. 1.

The Settlement Agreement has not become null and void under 2. Settlement Agreement Paragraph 165.

Cummins Engine Co., Inc. is in compliance with all 3. applicable certification requirements of the Settlement Agreement.

Cummins Engine Co., Inc. generates and submits emissions 4. data that demonstrate compliance with the terms of the Settlement Agreement for supplemental data points pursuant to paragraph 1.1 of Appendix C of the Settlement Agreement. The emissions data must be submitted by January 31, 1999, unless ARB extends this date for good cause.

Engines produced on or after July 31, 1999 are not covered by this Executive Order.

Engines certified under this Executive Order must conform to all applicable California emission regulations and to all applicable terms and conditions of the Settlement Agreement.

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

Executed at El Monte, California this _/d'24 day of December 1998.

ka. B. Summerfield, Chief

Raphael Surreint

Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

Process Code: Running Change	Manufacturer Family Name: 4133	6. Fust Rate: 7. Fust Rate: 8. Fust Rate: 9. Enission Control (for casets only) (SEA Grass) torus (Both) @peak torque Busine Par SAE 11000	50@1403	
pany, inc.		4.Fuel Rate: 5.Fuel Rate: inmistrate @ posit (ip. (hashi) @ posit HP (for classel only) (for custals only)		
	SCAC	3.BHP@RPM (SAE Gross)	<i>(</i> 2)	
	EPA Engine Family: XCEXH03:05CAC	2.Engine Model	ISC 330 330@	
acaralacanon.	EPA Engine Fami	1.Engine Code 2.Engine Model	CPL2229 FR90307	

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