State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-282-1 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 43100, 43101, and 43102 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 2000 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	lacement	Exhaust Emission Control
Engine Family	Liters	Cubic Inches	Systems and Special Features
YCEXH0359BAI	5.9	359	Turbocharger
(403O)			Charge Air Cooler
			Powertrain Control Module
		Oxidation Catalytic Converter	
			Direct Diesel Injection

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			
	Hydrocarbons	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	Particulate Matter
"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 5.0 grams per brake horsepower-hour:

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

CUMMINS ENGINE COMPANY, INC.

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

	Total			
	Hydrocarbons	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	Particulate Matter
"FTP"	0.1	0.6	3.4	0.07
"EURO III"	0.0	0.1	3.7	0.08 .

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:

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

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.

Executive Order A-21-282 issued on December 30, 1999, is hereby superseded by Executive Order A-21-282-1.

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

Executed at El Monte, California this 27 day of April 2000.

R. B. Summerfield, Chief Mobile Source Operations Division

	4			A-21-282-1
	8.Fuel Rate: 9.Emission Control (bs/hr)@peak torque Device Per SAE J1930 55.2 PCM, TC, CAC, 48.3 PCM, 符ਓ, CAC, 48.2 PCM, 符ਓ, CAC, 44.8 PCM, 符€, CAC,	5		
	8.Fuel Rate: (tbs/hr)@peak torqu 55.2 48.3 48.2 44.8			
	7.Fuel Rate: mm/stroke@peak torque 102 102 83			
HMENT	6.Torque @ RPM (SEA Gross) 520@1600 520@1400 520@1400 420@1600			
ATTACHMENT	5. Fuel Rate: (Ibs/hr) @ peak HP (for diesels only) 79.4 76.0 71.2 65.8			
	4.Fuel Rate: mm/stroke @ peak HP (for diesel only) 94 90 84 78			
Company, Inc. E	3.ВНР@RPM (SAE Gross) 215@2500 210@2500 193@2500 175@2500			
Cummins Engine Company, Inc. On-highway HDDE YCEXH0359BAI 403O New Submission	2.Engine Model ISB 225 ISB 210 ISB 190 ISB 185	:		
Manufacturer: Engine category: EPA Engine Fam ly . Mfr Family Name: Process Code:	1.Engine Code 2595;FR90550 2595;FR90551 2596;FR90552 2597;FR90553		:	

Engine Model Strary Form

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Part Number Superary Form

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Manufacturer: Cummins Engine Company, Inc.

Engine category: On-highway HDDE EPA Engine Famay: YCEXH0359BAI

New Submission

Process Code:

Mfr Family Name: 4030

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<u>Sensor Assemblies</u> ription Part Number	3943409	4002066	3329617	4760766	0040141	3603340	3865345	3408345	3943409	4002066	3329617	3348747	3865346	202531E	3003343	3408345	3943409	4002066	3329617	2248747		2003340	3865345	3408345
<u>Sensor A</u> Description	Engine Position	Engine Position	Boost Pressure	Bonet Droseuro	Contrat Tomo				Engine Position	Engine Position	Boost Pressure	Boost Pressure	Coolant Temp	lot Mofiel Tomo		Int Mnfld Temp	Engine Position	Engine Position	Boost Pressure	Roost Pressure	Coolant Tomo		Int Mintid Lemp	Int Mnfld Temp
Smoke Puff Limiter								and the second of the second second second					· · · · · · · · · · · · · · · · · · ·						· · · · · · · · · · · · · · · · · · ·				An Administration of the second s	
After Treatment Device (Specify)	3926233							2076733	0020200			•					3926233					a construction of the second		
Electronic Control Module	3942860	3944124		· · · · · · · · · · · · · · · · · · ·				3047860	00071-000	3944124					·		3942860	3944124			·		hard a second sequence of the second s	
Turbo Charge	3538865	3538868	3538881					3538865		3538868	3538881						3538865	3538868	3538881					:
Injector	3944197							3944200									3944205							
Injection Pump	3944983							3944983								3011003	09444900					The second	a constrained and the constrained of the constraine	
Engne Model	ISB 225	ISB 210					·	ISB 190								201 031								
Engine Code	CPL2595	CPL2595	CPL2595	CPL2595	CPL2595	CPL2595	CPL2595	CPL2596	CDI 2506		CPL2596	CPL2596	CPL2596	CPL2596	CPL2596	CDI 2507		CPL259/	CPL2597	CPL2597	CPL2597	CPL2597		CFLZ397

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