State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-305
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 engines and emission control systems produced by the manufacturer are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Model Year: 2001

Fuel Type: Diesel

Engine Family	Displacement Liters	Displacement Cubic Inches	Exhaust Emission Control Systems and Special Features
1CEXH0855NAD	14.0	855	Turbocharger Charge Air Cooler Powertrain Control Module Direct Diesel Injection

Engine models and codes are listed on the attachments.

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

	Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulate Matter
Standards	1.3	15.5	4.0	0.10
Certification	0.4	1.0	3.8	0.09

BE IT FURTHER RESOLVED: That pursuant to the Settlement Agreement and any modifications thereof, the aforementioned engine family is also subject to emission standards under the EURO III tests in the Settlement Agreement, including a "Not-to-Exceed" nitrogen oxides emission standard of 7.0 g/bhp-hr. The following are the emission standards and certification levels, in g/bhp-hr, under the EURO III tests:

	Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulate Matter
Standards	1.3	15.5	6.0	0.10
Certification	0.1	0.2	5.8	0.04

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.

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

Executed at El Monte, California this 6th day of February 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

Engine Model Summary Form

A-21-305

Manufacturer: **Cummins Engine Company, Inc.**

Engine category: **On-highway HDDE**

EPA Engine Family: **1CEXH0855NAD.**

Mfr Family Name: **093A4**

Process Code: **New Submission**

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
2592;FR10269	N14-525E+	525@1800	293	177.7	1850@1200	317	141.0	"PCM, TC, CAC"
2592;FR10268	N14-525E+	525@1800	293	177.7	1590@1200	273	121.4	"PCM, TC, CAC"
2592;FR10288	N14-525E+	525@1800	293	177.7	1590@1200	273	121.4	"PCM, TC, CAC"
2592;FR10281	N14-500E+	505@1800	283	171.6	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10267	N14-500E+	505@1800	283	171.6	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10282	N14-500E+	505@1800	283	171.6	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10287	N14-500E+ ST2	511@1800	286	173.9	1575@1200	270	120.3	"PCM, TC, CAC"
2592;FR10266	N14-460E+	480@1800	268	162.6	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10280	N14-460E+	480@1800	268	162.6	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10286	N14-460E+ ST2	480@1800	268	162.6	1550@1200	266	118.5	"PCM, TC, CAC"
2592;FR10265	N14-460E+	460@1800	256	155.4	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10264	N14-460E+ ST2	480@1800	268	162.6	1500@1200	258	114.7	"PCM, TC, CAC"
2592;FR10279	N14-460E+	480@1800	268	162.6	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10263	N14-435 ESP+	450@1800	251	152.1	1550@1200	266	118.5	"PCM, TC, CAC"
2592;FR10262	N14-435E+	450@1800	251	152.1	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10285	N14-435E+	450@1800	251	152.1	1550@1200	266	118.5	"PCM, TC, CAC"
2592;FR10261	N14-435E+	435@1800	242	147.0	1550@1200	266	118.5	"PCM, TC, CAC"
2592;FR10260	N14-435E+	448@1800	251	151.5	1450@1200	249	111.0	"PCM, TC, CAC"
2592;FR10289	N14-435E+	435@1800	242	147.0	1450@1200	249	111.0	"PCM, TC, CAC"
2592;FR10259	N14-435E+	435@1800	242	147.0	1450@1200	249	111.0	"PCM, TC, CAC"
2592;FR10307	N14-435E+	435@1800	242	147.0	1650@1200	283	126.1	"PCM, TC, CAC"
2592;FR10308	N14-500E+	505@1800	283	171.6	1750@1200	330	133.5	"PCM, TC, CAC"
2592;FR10309	N14-460E+	480@1800	268	162.6	1550@1200	266	118.5	"PCM, TC, CAC"
2592;FR10347	N14-435ESP+	450@1800	251	152.1	1550@1200	293	118.5	PCM, TC, CAC
2592;FR10370	N14-435E+	435@1800	242	147.0	1450@1200	274	111.0	PCM, TC, CAC
2963;FR10363	N14-525E+ ST2	525@1800	293	177.7	1850@1200	317	141.0	"PCM, TC,
2963;FR10362	N14-525E+	525@1800	293	177.	1590@1200	273	121.4	"[illegible]TC,
2963;FR10366	N14-525E+	525@1800	293	177.7	1590@1200	273	121.4	"PCM, TC