## State of California AIR RESOURCES BOARD

## **EXECUTIVE ORDER A-21-128**

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-45-3;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1995 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

| Engine Family          | <u>Liters</u> | (Cubic Inches) | Exhaust Emission Control<br>Systems and Special Features       |
|------------------------|---------------|----------------|--|
| SCE855EJDASW<br>(093V) | 14.0          | (855)          | Powertrain Control Module<br>Turbocharger<br>Charge Air Cooler |

Engine models and codes are listed on attachments.

The certification exhaust emission standards and, in accordance with the manufacturer's particulates averaging program, the particulates emission limit for this engine family in grams per brake horsepower-hour are:

|                               |                    | Nitrogen<br><u>Oxides</u> | Particulates         |                           |                        |  |
|-------------------------------|--------------------|---------------------------|----------------------|---------------------------|------------------------|--|
| Total<br>Hydroca <u>rbons</u> | Carbon<br>Monoxide |                           | Emission<br>Standard | Averaging<br><u>Value</u> | Family<br><u>Limit</u> |  |
| 1 3                           | 15.5               | 5.0                       | 0.10                 | 0.10                      | 0.09                   |  |

The certification exhaust emission values for this engine family in grams per brake horsepower-hour are:

| Engine                 | Total               | Carbon          | Nitrogen      | <u>Particulates</u> |
|------------------------|---------------------|-----------------|---------------|---------------------|
| <u>Family</u>          | <u>Hydrocarbons</u> | <u>Monoxide</u> | <u>Oxides</u> |                     |
| SCE855EJDASW<br>(093V) | 0.4                 | 0.8             | 4.4           | 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, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That these engines are included in a diesel heavy-duty particulates averaging program as permitted in the "California Exhaust Emission Standards for 1985 and Subsequent Model Heavy-Duty Engines and Vehicles, amended July 12, 1991", referenced section 86.091-11(a)(1)(iv)(c).

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

day of December, 1994.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

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## 1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

| Manufacturer   | Cummins E  | Ingine Company,                            | Inc.                                   | Engine Far          | nily (093 <b>y</b> )s    | CE855EJDASW                                  |  |
|--|--|--|--|---------------------|--------------------------|--|--|
| Displacement   | ·  | / 14 L                                     | iters                                  |                     | / 855                    | Cubia Inchas                                 |  |
| Maximum Rated  | d Power:   | 370  | HP @ 1800                              | RPM End             | ine Configur             | Carion Inches                                |  |
| Maximum Rated Power: 370 HP @ 1800 RPM Engine Configuration: I-6  Ignition: Compression X Compression with Glow Plug Spark |  |  |  |                     |                          |  |  |
| Fuel Type(s):  | : Dedicated_   | Flex-Fuel_                                 | Dual-Fue                               | l Diese             | 1 X M100                 | MR 5   |  |
|  | CNGI   | LNGLPG                                     | Other (sp                              | ecify)              |                          |  |  |
| Diesel Cert B  | 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 MRD HHD X Urban Bus  |  |  |  |                     |                          |  |  |
| Exhaust EC5 (  | include.MFI,   | TC, CAC):                                  | PCM (TC, CAC                           | 2)                  |                          |  |  |
|  | <del>1"</del>  |  | 1                                      | iations per         | SAE J1930 SE             | P91)   |  |
| Engine Model<br>(Eng Code)   | Rated HP<br>0 RPM  | Fuel Rate 4 Rated HP mm3 / stroke (lbs/hr) | Fuel Pump<br>&<br>Injector<br>Part No. | ECM/PCM<br>Part No. | EGR<br>Valve<br>Part No. | PTOX /<br>Catalytic<br>Converter<br>Part No. |  |
| N14-370E<br>(1807)   | 350 @ 1800   | 190 (115.2)                                | 3083846<br>3087733                     | 3084473             | N/A                      | N/A  |  |
| N14 ESP IT<br>N14-350E<br>(1807)   | 350 @ 1800   | 190 (115.2)                                | Same                                   | Same                | Same                     | Sama   |  |
| N14-330E<br>(1807)   | 330 @ 1800   | 178 (108.2)                                | Same                                   | 5ame                | Same                     | Same   |  |
| N14 ESP I<br>N14-310E<br>(1807)  | 310 @ 1800   | 167 (101.4)                                | Same                                   | Same                | Same                     | Same   |  |
| N14-390E<br>(1807)   | 370 @ 1800   | 203 (123.1)                                | Same ,                                 | Same                | Same                     | Same   |  |
| N14-350ESP<br>(1987)   | 350 @ 1800   | 186 (113)                                  | 3083848<br>3087734                     | Same                | Same                     | Same   |  |
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| Date Issued:   |  |  |  |                     |                          |  |  |