State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-41 Relating to Certification of New Motor Vehicle Heavy-Duty 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. 1987 model-year diesel-powered engines have shown compliance with the transient test procedure and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

| Engine Family | Displacer Cubic Inches | | Exhaust Emission Control Systems (Special Features) | | |
|---------------|---------------------------|--------|--|--|--|
| HCEO611FPB6 | 611 | (10.0) | Smoke Puff Limiter (Diesel Injection - Direct) (Turbocharger) (Intercooler) | | |

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

| Engine Family | Hydrocarbons gm/bhp-hr | Nitrogen Oxides gm/bhp-hr |
|---------------|---------------------------|------------------------------|
| HCEO611FPB6 | 0.4 | 4.4 |

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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.

Executed at El Monte, California this $2^{3\Gamma}$ day of October, 1986.

K. D. Drachand, Chief Mobile Source Division

| E.O. | # | A-21-41 |
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1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

| Manufactui | rer Cummins | Engine Company | /, Inc. En | gine Family _ | HCE0611FP | В6 . |
|-------------------|--|-----------------------------|--------------------------|-------------------------------------|-----------------------------------|-------------------------------------|
| Litre (CII | D) 10.0 (61 | 11) | Eng. | Type <u>Inlir</u> | ne 6 | |
| Emission (| Control Sys. ar | nd (Special Fea | atures)A | FC, AFC W/ASA | (Turbocharge | d, DID) |
| Engine Model | ! Mfr | _ | ! Rate HP ! | Fuel Rate mn3/stroke (lbs/Hr) | ! Torque ! | Fuel Rate mm3/stroke (lbs/Hr) |
| LTA10 CPL 0787 | Cummins 3037216 3034873 3034874 | Cummins 3049429 | 300 @ 1900 | 155 (99) | 950 @ 1300 | 182 (80) |
| LTA10 CPL 0789 | ! Same ! | : ! Cummins ! 3049429 | 270 @ 2100 | 129 (91) | ! !950 @ 1300! ! | 179 (78.5) |
| LT^10 0790 | ! Same ! | Cummins - 3049429 | 270 @ 1900 240 @ 2100 | | ! !860 @ 1300! !900 @ 1300! | 162 (71) 169 (74) |
| LTA10 CPL 0781 | ! Same | ! Cummins ! 3045102 | 270 @ 1900 | 139 (89) | | 162 (71) |
| LTA10 CPL 0780 | ! Same ! ! | ! Cummins ! 3045102 ! | ! 240 @ 2100 ! | 116 (82) | ! !870 @ 1300! ! | 164 (72) |
| | ! ! ! | ! ! ! · | 1 | | | |
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| Date of I | ssue | | Revis | ions: | | · |

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