

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-107-8

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

PERKINS ENGINES (PETERBOROUGH), LTD.

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 Perkins Engines (Peterborough), Ltd. 1994 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

| <u>Engine Family</u> | <u>Liters (Cubic Inches)</u> | <u>Exhaust Emission Control Systems and Special Features</u> |
|-------------------------|------------------------------|--|
| RPK243C6DAAA (110Ti) | 4.0 (243) | Turbocharger Oxidation Catalytic Converter Charge Air Cooler |

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake horsepower-hour:

| <u>Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Particulates</u> |
|---------------------|------------------------|------------------------|---------------------|
| 1.3 | 15.5 | 5.0 | 0.10 |

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

| <u>Engine Family</u> | <u>Hydrocarbons</u> | <u>Carbon Monoxide</u> | <u>Nitrogen Oxides</u> | <u>Particulates</u> |
|----------------------|---------------------|------------------------|------------------------|---------------------|
| RPK243C6DAAA | 0.1 | 0.6 | 4.9 | 0.09 |

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.).

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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 23rd day of June, 1994.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

199__ AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer PERKINS ENGINES (PETERBOROUGH) LTD Engine Family PHASER 110Ti
 Liters (CID) 3.99 (243.5) Fuel Type 2D LOW SULPHUR Engine Config. I4
 Exhaust ECS & Special Features (ECM/PCM, PTOX, IFI, etc.) CAC OC TC ~~SA~~
 (Use abbreviations per SAE J1930 MAY91)

| Engine Model (Eng. Code) | Rated HP @ RPM | Fuel Rate @ Rated HP mm ³ / stroke (lbs/hr) | Fuel Pump & Injector P/N | ECM/PCM P/N | Part. Trap/ Catalyst P/N |
|-----------------------------|-----------------------|---|--------------------------------|----------------|--------------------------------|
| PHASER 110Ti (AE) | 110 BHP @ 2600 RPM | 80.75 to 89.25 (47.0 to 52.0) | 26420454 | - | 26730102 |

Revisions: _____