State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-107-11

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1995 model-year Perkins Engines (Peterborough), Ltd. engine and exhaust emission control system are certified as described below for use in medium-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Diesel

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
SPK243C6DAAA (110Ti)	4.0	243	Charge Air Cooler Turbocharger Oxidation Catalytic Converter

Engine models and codes are listed on attachments.

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
1.3	15.5	5.0	0.10

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

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
SPK243C6DAAA	0.1	0.6	4.9	0.09

BE IT FURTHER RESOLVED: That, pursuant to Title 13, California Code of Regulations, Section 1960.1(h)(1)(3), the listed engine models are certified to the exhaust emission standard and test procedures applicable to 1994 model-year heavy-duty deisel-cycle engines (Title 13, California Code of Regulations, Section 1956.8) based on a phase-in compliance plan submitted by the manufacturer.

BE IT FURTHER RESOLVED: That the listed engine models also comply with the the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed engine models are not subject to the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESLOVED: That the listed engine models have been exempted from the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

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.)

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 22nd day of June 1995.

R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-107-11

1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
MEDIUM-DUTY VEHICLE DIESEL-STANDARD ENGINES

Manufacturer PERKINS ENGINE (PETERBOROUGH) Engine Family SPK243C6DAAA (110Ti)

Displacement: 3.99 / Liters 243.5 / Cubic Inches

Maximum Rated Power: 110 HP @ 2600 RPM Engine Configuration:

Ignition: Compression XX Compression with Glow Plug Spark

Fuel Type(s): Dedicated XX Flex-Fuel Dual-Fuel Diesel XX M100 M85

CNG LNG LPG Other (specify)

Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 XX

Primary Intended Service Class: LHD XX MHD HHD Urban Bus

Exhaust ECS (incl. MFI, TC, CAC): CAC, TC, OC
(use abbreviations per **SAE J1930 SEP91**)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm^3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
Phaser 110Ti (AE)	110 bhp @ 2600 RPM	80.75 TO 89.25 (47.0 TO 52.0)	2642C454	n/a	n/a	26730102

Date Issued:

Revisions: