

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-107-12

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

PERKINS ENGINES (PETERBOROUGH)

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 Perkins Engines (Peterborough) 1996 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

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
TPK243C6DAAA (110Ti)	3.99	243.5	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:

<u>Total 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 exhaust emission values for this engine family in grams per brake-horsepower-hour:

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TPK243C6DAAA (110Ti)	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 22<sup>nd</sup> day of June 1996.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer PERKINS ENGINE (PETERBOROUGH) Engine Family TPK243C6DAAA (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 @ <sub>3</sub> Rated HP mm <sup>3</sup> / 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:                      |                      |                      |                      |                      |