

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-107-4  
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

PERKINS ENGINES, 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, Ltd. 1992 model-year 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>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
NPE0243FAJ9	4.0 (243)	Turbocharger Charge Air Cooler
NPE0365FAA0	6.0 (365)	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The certification exhaust emission standards for these engine families in grams per brake horsepower-hour are:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

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

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
NPE0243FAJ9	0.4	1.3	4.8	0.23
NPE0365FAA0	0.4	1.5	4.8	0.25

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 provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

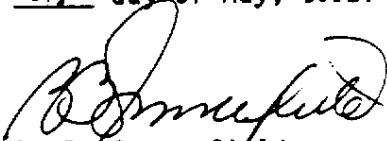
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 27<sup>th</sup> day of May, 1992.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

E.O.# A-107-41992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINESLHDD  
Page \_\_\_\_\_Manufacturer PERKINS ENGINES (PETERBOROUGH) LTD Engine Family (PHASER 110Ti) NPE0243FAJ9Liters (CID) 3.99 (243.5) Engine Type I-4Emission Control Sys. & Special Features TC CAC  
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Injection Pump Mfr.  Part Number	Injector Mfr.  Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
PHASER 110Ti (AE)	BOSCH PERKINS PART NO. 2642C451 or 2642C452 (USES REMOTE LIFT PUMP)	BOSCH PERKINS PART NO. 2645F012	110bhp at 2600 RPM	78/84 cu mm/STROKE	TBA

Revisions:  
031390

E.O.# A-107-41992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINESMHDD  
Page 16.04.00.03Manufacturer Perkins Engines (Peterborough) Limited Engine Family (Phaser 180Ti)NPE0365FAA0Liters (CID) 5.985 { 364.9 } Engine Type I-6Emission Control Sys. & Special Features TC,CAC  
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Eng. Code)	Fuel Injection Pump Mfr.  Part Number	Injector Mfr.  Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm <sup>3</sup> /stroke	Label Ident.
Phaser 180Ti (YE)	Bosch 2642C651 or 2642C652 uses remote lift pump	Bosch 2645F012	180 bhp at 2600 rpm	91,8 to 83,77	TBA

Revisions:  
031390