

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-13-1  
Relating to Certification of New Motor Vehicle Engines

CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100 and 43102 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 Cummins Engine Company, Inc., 1977 model-year diesel-powered engines in heavy-duty motor vehicles are certified for the engine family described below:

<u>Engine Family</u>	<u>Engine Size (CID)</u>	<u>Engine Model</u>	<u>Type</u>
193	1150	KTC-450	Six Cylinder Inline-Turbocharged and Aftercooled

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

Executive Order A-21-13 dated July 18, 1977 is hereby rescinded.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

<u>Engine Family</u>	<u>HC + NOx gm/bhp-hr</u>	<u>CO gm/bhp-hr</u>	<u>HC gm/bhp-hr</u>	<u>NOx gm/bhp-hr</u>
193	Not Applicable	1	0.6	6.7

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

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this 4 day of August, 1977.

*G. C. Hass*  
G. C. Hass, Chief  
Vehicle Emissions Control Division

## 1977 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer CUMMINS ENGINE CO., INC. Executive Order No. A-21-13 Page 1 of 1Engine Family 193 Engine (CID) 1150Emission Control Systems AFC Type TCA CPL 0302

Engine Model	Fuel Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Basic Initial Timing
KTC-450	Cummins	3003958	450 @ 2100 400 @ 1900 425 @ 2100 375 @ 1900 400 @ 2100	237 228 226 217 215	18.5° BTC @ .2032 in. Piston travel and .118 push tube travel
Comments					
Date of Issue					

## Abbreviation

Type

NA - Natural Aspiration

TC - Turbocharged

TCA - Turbocharged and Aftercooled