State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-4-1
Relating to Approval of New Motor Vehicles

INTERNATIONAL HARVESTER COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 39150 and 39151 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Section 39023 of the Health and Safety Code;

IT IS ORDERED AND RESOLVED: That International Harvester Company exhaust emission control systems for gasoline engines for 1973-model year heavy-duty motor vehicles are approved for the engine families described below:

| Engine Family | Engine Size (cubic inches) | Exhaust Emission Control System | Engine Models |
|---|---|---|---|
| V-304 | 304 | Engine Modification and Exhaust Gas Recirculation | V-304 |
| V-345 | 345 | Engine Modification and Exhaust Gas Recirculation | V-345 |
| V-392 | 392 | Engine Modification | V-392 |
| RD-406 | 406 | Engine Modification | RD-406 |
| LV-8 | 401<br>478<br>549 | Engine Modification<br>Engine Modification<br>Engine Modification | V/VS-401<br>V/VS-478<br>V/VS-549<br>FTV/FTVS-549 |

Section 39152, Part I, 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.

The following are recommended values to be listed on the decal:

| Engine Family | Hydrocarbons plus Nitrogen Dioxide Grams/Brake Horsepower-Hour | Carbon Monoxide Grams/Brake Horsepower-Hour |
|---|---|---|
| V-304 | 9.6 | 36 |
| V-345 | 15.3 | 35 |
| V-392 | 9.5 | 22 |
| RD-406 | 10.7 | 33 |
| LV-8 | 13.7 | 37 |

Supplemental information sheets are attached to this order which includes tune-up specifications and emission control system data.

It is requested that International Harvester Company inform the Air Resources Board of any production changes which will affect emissions.

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

Executed at Sacramento, California, this 7 day of December, 1972.

JOHN A. MAGA
Executive Officer

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SUPPLEMENTAL INFORMATION

1973-Model Year

Engines for Heavy-Duty Vehicles

Manufacturer:
INTERNATIONAL HARVESTER COMPANY

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| Engine Model | Engine C.I.D.. | Carburetor No. of Venturi | Engine Family | Tune-Up Specifications | | |
|---|---|---|---|---|---|---|
| | | | | Idle RPM | Basic Timing | Idle CO or AFR |
| V-304 | 304 | 2V | V-304 | 650-700 in Neutral | TDC @ 700 RPM in Neutral | 1.0-2.0% CO |
| V-345 | 345 | 2V | V-345 | 650-700 in Neutral | TDC @ 700 RPM in Neutral | 1.0-1.5% CO |
| V-392 | 392 | 4V | V-392 | 650-700 in Neutral | TDC @ 700 RPM in Neutral | 1.0-2.0% CO |
| RD-406 | 406 | 2V | RD-406 | 500-550 in Neutral | 5°BTDC @ 500 RPM in Neutral | 2.5-3.5% CO |
| V/VS-401 | 401 | 4V | LV-8 | 600-650 in Neutral | 7°BTDC @ 600 RPM in Neutral | 0.5-2.5% CO |
| V/VS-478 | 478 | 4V | LV-8 | 500-550 in Neutral | 7°BTDC @ 500 RPM in Neutral | 0.5-2.5% CO |
| V/VS-549 | 549 | 4V | LV-8 | 500-550 in Neutral | 7°BTDC @ 500 RPM in Neutral | 1.0-3.0% CO |
| FTV/FTVS-549 | 549 | 4V | LV-8 | 500-550 in Neutral | 9°BTDC @ 500 RPM in Neutral | 1.0-3.0% CO |

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1973-Model Year

Engines for Heavy-Duty Vehicles

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| Engine Model | Engine C.I.D. | Carburetor No. of Venturi | Distributor Make | Distributor & No. | Type Adv.* | HOLLEY Carburetor Make No. | Emission Control System ** Exhaust | NOx | Evap. | Other |
|---|---|---|---|---|---|---|---|---|---|---|
| V-304<br>V-304G | 304 | 2V | Holley | 427908-C91<br>448509-C91<br>448510-C91 | C-V | 441192-C91<br>441195-C91 | EM | EGR | Canister | TLD |
| V-345<br>V-345G | 345 | 2V | Holley | 427908-C91<br>448511-C91<br>448512-C91 | | 441192-C91<br>441196-C91 | | | | TLD |
| V-392<br>V-392G | 392 | 4V | Holley | 379282-C91<br>427965-C91<br>427967-C91 | | 442166-C91<br>442167-C91<br>442170-C91 | | | | |
| RD-406 | 406 | 2V | Delco Remy | 442137-C91 | C | 442258-C91 | | | | TLD |
| V/VS-401<br>V/VS-478 | 401<br>478 | 4V<br>4V | Holley | 401031-C91<br>401035-C91<br>427199-C91<br>427200-C91<br>427201-C91 | | 442259-C91<br>427197-C91 | | | | |
| V/VS-549 and FTV/FTVS-549 | 549 | 4V | Holley | 401030-C91<br>401033-C91<br>413377-C91 | | 442260-C91 | | | | TLD |

* C-Centrifugal
V-Vacuum
VR-Vacuum Retard

**TLD = Throttle Limiting Device
EM = Engine Modification System
EGR = Exhaust Gas Recirculation
G = Governed speed version