

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-M-2-1
Relating to Certification of New
Off-Highway Recreational Vehicles and Engines

FUJI HEAVY INDUSTRIES LTD.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and,

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1997 model-year Fuji Heavy Industries Ltd. emission control systems are certified as described below for off-highway recreational vehicles and engines used in such vehicles:

Vehicle Type: All-terrain vehicle

Fuel Type: Gasoline

| <u>Engine Family</u> | <u>Displacement Cubic Centimeters</u> | <u>Class</u> | <u>Exhaust Emission Control Systems and Special Features</u> |
|----------------------|-------------------------------------------|--------------|------------------------------------------------------------------|
| VFJ498U1G2RA | 425 and 498 | II | Engine Modification |

Production vehicles, and engines that power such vehicles, shall be in all material respects the same as those for which certification is granted. Vehicle models and/or engines that power such vehicles are listed in the attachment.

The exhaust-emission standards and certification values for this engine family are listed below in grams per brake horsepower-hour. The designated hydrocarbon-plus-oxides-of-nitrogen standard shall be displayed on the permanent engine-emission label.

| <u>Hydrocarbon plus Oxides of Nitrogen</u> | | <u>Carbon Monoxide</u> | |
|------------------------------------------------|------------------------|----------------------------|------------------------|
| <u>(Standard)</u> | <u>(Certification)</u> | <u>(Standard)</u> | <u>(Certification)</u> |
| 10.0 | 6.6 | 300 | 279 |

BE IT FURTHER RESOLVED: That, pursuant to Section 2412(e), Title 13 of the California Code of Regulations, the certified engines were tested in accordance with the incorporated utility engine test procedures, and have demonstrated compliance with such applicable emission standards.

BE IT FURTHER RESOLVED: That the above designated hydrocarbon-plus-oxides-of-nitrogen standard shall be the exhaust limit for this engine family for the model year and is not subject to change by the manufacturer. Such standard shall be used to determine engine-family compliance as determined in accordance with the utility engine test procedures pursuant with the provisions of Sections 2412(b) and (e), and Section 2414(a), Title 13 of the California Code of Regulations.

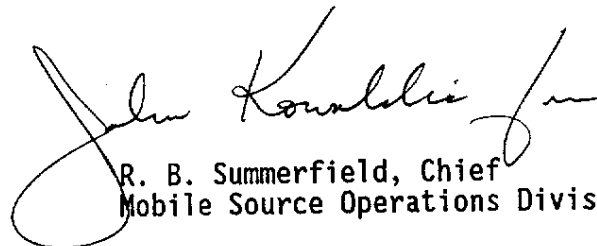
BE IT FURTHER RESOLVED: That the listed vehicles, and engines that power such vehicles, shall be subject to the procedures for in-use vehicle voluntary and influenced recalls, in-use vehicle ordered recalls, and in-use vehicle enforcement testing pursuant to the provisions of Section 2414(a), Title 13 of the California Code of Regulations.

BE IT FURTHER RESOLVED: That the listed vehicles, and engines that power such vehicles, shall not discharge any crankcase emissions into the ambient atmosphere pursuant to Section 2412(h), Title 13 of the California Code of Regulations.

BE IT FURTHER RESOLVED: That the listed vehicles, and engines that power such vehicles, shall comply with the emission-control label provisions of Section 1965, Title 13 of the California Code of Regulations, pursuant to the requirements of Section 2413(a), Title 13 of the California Code of Regulations ("Emission Control Labels -- New Off-Highway Recreational Vehicles").

Vehicles, and engines that power such vehicles, certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 23rd day of December 1996.


R. B. Summerfield, Chief
Mobile Source Operations Division

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
ALL/TERRAIN/VEHICLE ENGINES

Manufacturer: Fuji Heavy Industries Ltd. Engine Family: VFJ498U1G2RA

Engine Class: 2 Displacement(cc): 425/498 Engine Config: 1C/OHC

Valves/Cylinder: Four Stroke/Cycle: Otto Four Diesel

No. of Carburetors: One Hols per Carb.: One Maximum Rated Power: 30 HP @
6,000 RPM

Fuel Type: Gasoline X Diesel CNG LPG Other (Specify)

Cert Fuel: Indo X Ph-2 CNG LPG Other (Specify)
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94

Cooling Medium: Water Test Procedure: RGM X CVS Other (Specify)

Adjust Para: None Non-Adjust Tamper Resist X Adjust Tamper Resist
No Tamper Resist

Emission Control System : EM
(Use abbreviations per SAE J1930 SEP91)

| Engine Model (Engine Code) | Rated HP @RPM (SAE J1349 JUN90) | Ignition System Mfr. P/N | Fuel System Mfr. P/N | Catalytic Converter Part No. |
|-------------------------------|------------------------------------------|--------------------------------|-------------------------|------------------------------------|
| EH42P01 | 26 HP (19.4 kw) @6,000 | N/A | N/A | N/A |
| EH50P01 | 30 HP (22.4 kw) @6,000 | N/A | N/A | N/A |

Date Issued: Oct./16/96
Revisions :

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1997 AIR RESOURCES BOARD CERTIFICATION REVIEW SHEET
ALL/TERRAIN/VEHICLE ENGINES

Manufacturer: Fuji Heavy Industries Ltd. Engine Family: VFJ498UIG2RA^{.5}

Engine Class: 2 Displacement(cc):425/498 Engine Config: 1C/OHC

Valves/Cylinder: Four Stroke/Cycle: Otto Four Diesel

No. of Carburetors: One Bbls. per Carb.: One Maximum Rated Power: 30 HP @
6,000 RPM

Fuel Type: Gasoline X Diesel CNG LPG Other(Specify)

Cert Fuel: Indo X Ph-2 CNG LPG Other(Specify)
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94

Cooling Medium: Water Test Procedure: RGM X CVS Other (Specify)

Adjust Para: None Non-Adjust Tamper Resist X Adjust Tamper Resist
No Tamper Resist

Emission Control System: EM

(use abbreviations per SAE J1930 SEP91)

| Subject | Sect/page # | Subject | Sect/page # |
|-------------------------------|-------------|--------------------------------|--------------------------------|
| 1 Communications | 01/1 | 13 Test Engine Results | 08/1 |
| 2 Confidentiality | 03/1 | 14 Adjustable Parameter(s) | None |
| 3 Fuels & Lubricants | 06/2 | 15 Tamper Resistance Method(s) | C-96-353 |
| 4 Test Facility/Equipment | - | 16 Emission Label Statement | 02/1 |
| 5 Test & Break-In Procedures | 06/2 | 17 Conformance Statement | 02/1 |
| 6 Maintenance & Warranty | - | 18 Test Procedure Statement | 02/2 |
| 7 Engine Emission Labels | 05/1 | 19 Projected Sales | 03/2 |
| 8 General Engine Description | 04/1 | 20 Engine Application(s) | - |
| 9 Engine Family Description | 04/1 | 21 Alternate Test Procedure | N/A <u>WULGE TP</u> |
| 10 Test Engine Selection | 06/1 | 22 New Emission Controls | N/A |
| 11 Test Engine(s) Information | | | |
| C/O or C/A MY & ID | NEW | | |
| Test-Engine Logs | - | | |
| Maint Logs & Engr Eval | - | | |

OFFICIAL TEST RESULTS

CERTIFICATION EMISSIONS

| Engine Code | Displ (cc) | Engine ID | Test Loc. | HC+NOX | HC | CO | NOX | Part |
|-------------|------------|-----------|-----------|-------------------|------------------|--------------------|------------------|------|
| EH42P01 | 425 | - | Manuf. | *6.954 | 4.681 | 295.409 | 1.871 | - |
| EH42P01 | 425 | - | Manuf. | 6.647 | 4.340 | 279.415 | 2.011 | - |

(Refer to pages 06-4 & 06-4.1)

The above emission data engines(s)

comply with Class 2 standards of: 10.0 - 300 - -

*The top value shows the Initial test.

Remarks/base Engine: Non-Adjustable Carburetor, NO CORPORATE AVG PLAN
Application CARB Tamper Resistance Approval C-96-353

Processed by J. DeLeon Date 12/20/96 Reviewed by R. DeLeon Date 20 DEC 96
Date Issued: Oct./16/96 Revisions: