

File

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER M-1-279  
Relating to Certification of New Motorcycles

KAWASAKI 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 1999 model-year Kawasaki Heavy Industries, Ltd. exhaust emission control systems are certified as described below for four-stroke gasoline-powered motorcycles:

<u>Engine Family</u>	<u>Displacement Cubic Centimeters</u>	<u>Class</u>	<u>Exhaust Emission Control Systems &amp; Special Features</u>
XKAXC.738AAA	738	III	Pulsed Secondary Air Injection

Vehicle models and transmissions are listed on the attachment. Production motorcycles shall be in all material respects the same as those for which certification is granted.

The following are the exhaust emission standards and exhaust emission certification values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

<u>Hydrocarbon Standards (Corporate Average)</u>		<u>Hydrocarbons (Certification)</u>		<u>Carbon Monoxide (Certification)</u>	
<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>	<u>Grams per Kilometer</u>
1.4	1.7	1.6	12	6	

BE IT FURTHER RESOLVED: That the above-described certification is subject to the following terms, limitations and conditions:

The above designated hydrocarbons standard shall be the exhaust limit for this engine family during the model year and therefore cannot be redesignated by the manufacturer. It represents the hydrocarbons exhaust emission standard applicable to this engine family that shall be applied when determining compliance of any motorcycle within this engine family pursuant to Section 2101 of Title 13, California Code of Regulations. It will also be used to determine compliance with the above corporate average hydrocarbons standard as required per Section 1958(b), Title 13 of the California Code of Regulations.

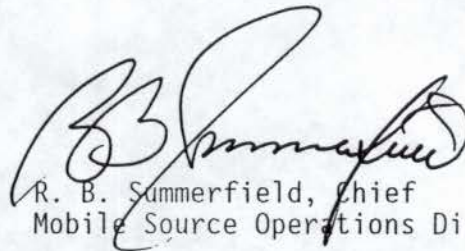
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That these motorcycles are found exempt from compliance with the Air Resources Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" pursuant to Executive Order G-70-16-E.

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

Executed at El Monte, California this 21<sup>st</sup> day of April 1999.



R. B. Summerfield, Chief  
Mobile Source Operations Division

(Model Year) / (Manufacturer) Motorcycle  
1999 Kawasaki

M-1-279

Section: 7: Page: 6  
Issued: FEB 05 1999  
Revised:

Engine Family: XKAXC.738AAA

### Motorcycle Model Summary Form

65. Model Designation	66. Worst Case	67. Disp. (cc)	68. Bore / Stroke (mm)	69. Basic Ignition Timing (degrees)	70. Powe r (kW)	71. Rated Speed (RPM)	72. Rated Torque (Nm)	73. Rated Speed (RPM)
ZR750-C6	Yes	738	66.0X54.0	12.5°/11000rpm	53	9500	59	7300
ZR750-F1	—	738	66.0X54.0	12.5°/11000rpm	56	9500	63	7500

65. Model Designation	74. EIM (kg)	75. Loaded Vehicle Weight Range (kg)	76. Road Load (nt)	77. Total Vehicle Mass (kg)	78. Full Weight with All Factory Options (kg)	79. Trans. Type	80. N/V
ZR750-C6	370	366~375	149.7	217	295	M-5	47.28
ZR750-F1	370	366~375	149.7	228	295	M-5	45.81

# Motorcycle Engine Family Information Form

1. Manufacturer: KAWASAKI HEAVY INDUSTRIES, LTD.

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2. Certification Contact Person, address, phone, and fax:

Jeffrey D. Shetler / Scott Patten Kawasaki Motors Corp., USA. 9950 Jeronimo Road, Irvine. CA 92618-2084 Tel : 949-770-0400 Fax : 949-460-5602
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3. Model Year: 1999

10. Displacement: 738cm<sup>3</sup>

4. Process Code: New  
(new, correction, revision, r/c, f/f. etc.)

11. Number of Cylinders: 4

5. Engine Family: XKAXC.738AAA

12. Cylinder Arrangement: Inline-4

50s Engine Code: —

13. Cylinder Head Configuration: DOHC

49s Engine Code: —

Calif. Engine Code: ZR750A-AC1

14. Type of Cooling: Air

6. Emission Control System: EM+PAIR

15. Combustion Cycle: 4

7. Calif. Designated Standard: 1.7 gm/km

16. Method of Aspiration: Natural

8. Projected Annual Sales: CONFIDENTIAL

17. Fuel System: Carburetor

9. New Technology — Yes X No  
If yes, cite the correspondence or reference the  
submittal document:                     

18. Number of Catalytic Converters: NA

19. Adjustable Parameters:

Parameter(s)	Adjustable Range (or NA)	Tamper Resistance Method (or NA)	Method Approved
Air adjuster on carburetor (Air/Fuel Ratio)	NA	an aluminum cap is placed over the adjusting screw.	Carry over

20. AECDS In the Emission Control Systems:

Exhaust System	Evaporative System
AECDS In System: <u>EM and PAIR</u> _____ _____ _____	AECDS In System: <u>Sealed loop with Canister</u> _____ _____

Application Processed by: Joseph Jegede Date 4/20/99 Reviewed by: K. Kreger Date 4/20/99

Engine Family: XKAXC.738AAA

### Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family?  Yes  No  
 a) If yes, indicate family name: RKA.74POGARA  
 b) Is the family being certified identical to the family from which the data is being carried over?  Yes

28. Model Designation of Test Vehicle: ZX750-A1  
 29. Test Information Number: 99-1  
 30. Vehicle ID: JKAZXDA12DA000013  
 31. Service Accumulation Duration: 15000 (km)  
 32. Maximum Rated Power: 62.5 kW @ 9500 RPM  
 33. Displacement: 738 cc  
 34. Certification Fuel: Indolence: 91-95 RON  
 35. Test Data Set: Test 1

36. Road Load: 149.7 nt at 65 kph  
 37. Inertia Mass: 370 kg  
 38. N/V: 47.28  
 39. EVAP. Bench Test Method Approved:  
 Date: N/A  
 Reference: N/A  
 40. Unscheduled Maintenance:  Yes  No  
 41. If yes, Vehicle Log provided: NA

42. Exhaust Emission Deterioration Factors:

Test Number	System Kilometers	Emission Values	
		HC	CO
1	3305	1.27	8.9
2	5133	1.60	5.7
3	5163	1.39	5.2
4	10163	1.42	7.6
5	10193	1.35	7.2
6	15012	1.44	6.3
7	15042	1.60	6.2
Interpolated Values at <u>15000</u> km:		HC = <u>1.4306</u>	CO = <u>6.5990</u>
Extrapolated Values at <u>30000</u> km:		HC = <u>1.4722</u>	CO = <u>6.1216</u>

Check one:	
Regular DF	<input checked="" type="checkbox"/>
Modified DF	<input type="checkbox"/>
If different vehicle specify vehicle ID	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	CO	6.2			
g/km	CO <sup>2</sup>	111.2			
g/km	HC	1.60			
g/test(Cal.)	Evap.	0.721			

Deterioration Factors
(X) 1.000
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(X) 1.029
(+) 0.095

44. Certification Levels:

g/km	CO	<u>6</u>			
g/km	HC	<u>1.6</u>			
g/test(Cal.9	Evap.	0.816			