State of California AIR RESOURCES BOARD

EXECUTIVE ORDER M-1-312 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 the following engine and exhaust emission control systems produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles:

Model Year: 2001

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
1KAXC.599AAA	599	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 certification emission values for this engine family. The designated hydrocarbons standard shall be listed on the permanent tune-up label:

Hydrocarbons S	Hydrocarbons	Carbon Monoxide		
(Corporate Average) Grams per Kilometer	(Designated) Grams per Kilometer	(Certification) Grams per Kilometer	(Standard) Grams per <u>Kilometer</u>	(Certification) Grams per Kilometer
1.0	1.3	1.2	12	7

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 2001 and Subsequent Model Motor Vehicles," as required by Section 1976, Title 13 of the California Code of Regulations.

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 12 day of June 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

ATTACHMENT

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Issued: MAY 0 5 2000

Revised: E.O.#! M-1-312

Engine Family: 1KAXC.599AAA

Motorcycle Model Summary Form

Model Designation	Worst Case	Disp. (cc)	Bore / Stroke (mm)	Basic Ignition Timing (degrees)	Power (kW)	Rated Speed (RPM)	Rated Torque (Nm)	Rated Speed (RPM)
ZX600-E9	No	599	64.0X46.6	5°/1300 rpm	74	11500	63.7	9500

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
ZX600-E9	340	336 ~ 345	143.6	221.5	265	M-6	51.50

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Motorcycle Engine Family Information Form

Jeffrey D. Shetler Kawasaki Motors 9950 Jeronimo R Tel: 949-770-04	Corp., U.S.A. oad, Irvine, CA 92618-20						
. Model Year: 20	<u>01</u>	10. Displacement: _5	599 cm ³				
. Process Code: 1	New_ etion, revision, r/c, f/f. etc.)	 Number of Cylinde Cylinder Arrangen 					
50s Engine C 49s Engine C Calif. Engine	Code:		13. Cylinder Head Configuration: <u>OHV/DOHC</u>				
	ol System: <u>EM+PAIR</u>						
. Calif. Designate	d Standard: 1.3 gm/km	16. Method of Aspirat	16. Method of Aspiration: Natural				
If yes, cite the co submittal doo	Yes X No orrespondence or reference cument:		ic Converters: NA				
9. Adjustable Param Parameter(s)	Adjustable Range (or NA)	Tamper Resistance Method (or NA)	Method Approved				
Air adjust on carburetor Air/Fuel Ratio)	NA NA	A tamper proof cap is placed over the adjusting screw	Carry over				
20. AECDs In the Em	nission Control Systems:		MAGA				
Exhaust System		Evaporative System					
AECDs In System: EM and PAIR		AECDs In System:	Sealed loop with Canister				

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Issued: MAY 0 5 2000

Revised:

E.O.#: M-1-312

Engine Family: 1KAXC.599AAA

Motorcycle Test Information Form

D. 15

27.	Are you carrying over test results from a previously certified family?	X	Yes	No

a) If yes, indicate family name: PKA059944A8

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: ZX600-E1

29. Test Information Number: 93-1

30. Vehicle ID: JKAZX4E12PA000012

31. Service Accumulation Duration: 15000 (km)

32. Maximum Rated Power: 74 kW @ 11500 RPM

33. Displacement: 599 cc

34. Certification Fuel: Indolene: 91-95 RON

35. Test Data Set: Test 1

36. Road Load: 143.6 nt at 65 kph

37. Inertia Mass: 340 kg

38. N/V: 51.50

39. EVAP. Bench Test Method Approved:

Date: 2/23/1983

Reference: 84ARB-03

40. Unscheduled Maintenance: Yes X No

41. If yes, Vehicle Log provided:

42. Exhaust Emission Deterioration Factors:

	Emission Values		
System Kilometers	HC	CO	
3515	1.13	6.2	
5012	0.82	6.2	
5042	1.09	6.4	
10012	1.12	5.7	
		5.2	
15012	1.17	6.7	
	3515 5012 5042 10012 10042	System Kilometers HC 3515 1.13 5012 0.82 5042 1.09 10012 1.12 10042 0.53	

Interpolated Values at 15000 km: HC = 0.9895 CO = 6.0631

Extrapolated Values at 30000 km: HC = 1.0174 CO = 6.0554

Regular DF	X
Modified DF	
If different vehic specify vehicle II	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	СО	6.7			
g/km	CO ₂	145.0			
g/km	HC	1.17			
g/test	Evap.	1.321			

Deterioration Factors

(X) 1.000

(X) 1.028

(+)

44. Certification Levels:

Coleman				_	
g/kn	n	CO	7	2	
g/kn	n	HC	1.2		
g/tes	st	Evap.	1.46	7	

Carry over since 1993

0.146

Application Processed by: Joseph Jegede Date: 6/8/2000 Reviewed by: L. Hed Date: 6/8/2000