#### State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER M-1-310 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
1KAXC1.20AAA	1196	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	Standards	Hydrocarbons	Carbon	Monoxide
(Corporate Average) Grams per Kilometer	(Designated) Grams per Kilometer	(Ćertification) Grams per Kilometer	(Standard) Grams per Kilometer	(Certification) Grams per Kilometer
1.4	1.5	1.0	12	11

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 15 day of June 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

### ATTACHMENT

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Issued: APR 0 6 2000

Revised: E.O. #: M-1-310

Engine Family: <u>1KAXC1.20AAA</u>

# **Motorcycle Model Summary Form**

65. Model Designation	66. Worst Case	67. Disp. (cc)	68. Bore / Stroke (mm)	69. Basic Ignition Timing (degrees)	70 Power (kW)	71 Rated Speed (RPM)	72 Rated Torque (Nm)	73. Rated Speed (RPM)
ZG1200-B15	No	1196	78.0X62.6	10°/800 rpm	71.3	7000	107.9	5000
								=

7(1)200-815   460   456 465   1660   2615	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
	ZG1200-B15	460	456 ~ 465	166.0	361.5		M-5	29.41

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# Motorcycle Engine Family Information Form

1.	Manufacturer: K	AWASAKI HEAVY IN	DUST	RIES, LTD.			
2.	Jeffrey D. Shetle	ntact Person, address, pho er / David Corey	one, ar	nd fax:			
	Kawasaki Motor	rs Corp., U.S.A. Road, Irvine, CA 92618	2004				
	Tel: 949-770-04		3-2084 949-4	60-5602			
3.	Model Year: 20	001		10. Displacement:	1196 cm <sup>3</sup>		
4.	Process Code:		1911	11. Number of Cylind	lers: 4		
		ction, revision, r/c, f/f. etc	c.)	12. Cylinder Arrange	ment: Inline-4		
5.		1KAXC1.20AAA					
	50s Engine C 49s Engine C			13. Cylinder Head Co	nfiguration: OHV/DOHC		
	Calif. Engine			14. Type of Cooling:	Liquid		
6. Emission Control System: <u>EM+PAIR</u>			15. Combustion Cycle: 4				
7.	Calif. Designated	d Standard: 1.5 gm/km		16. Method of Aspirat	tion: Natural		
8.	Projected Annua	l Sales:		17. Fuel System: <u>Ca</u>	rburetor		
0	CONFI	DENTIAL					
9.	New Technology	Yes X No			ic Converters: NA		
	submittal doc	ument:	e tne	CONFIDENTIAL			
19	Adjustable Parame	tere.					
	Parameter(s)	Adjustable Range	Ta	mper Resistance Method	Method Approved		
Air	adjust on	(or NA) NA	Α +	(or NA)			
carb	ruretor /Fuel Ratio)	NA		amper proof cap is placed r the adjusting screw	Carry over		
20.	AECDs In the Emis	ssion Control Systems:		Y STATE OF STATE			
Exh	aust System	sion control dystems.		Evaporative System			
AEC	CDs In System:			AECDs In System:			
		EM and PAIR	_		Sealed loop		
			_		with Canister		
-							

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Issued: APR 0 6 2000

Revised:

E.O. #: M-1-310

Engine Family: 1KAXC1.20AAA

## **Motorcycle Test Information Form**

0.1

27.	Are you carrying over test results from a previously certified family?	X	Yes	No
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If yes, indicate family name: GKA119644A1

Is the family being certified identical to the family from which the data is being carried over? Yes

- 28. Model Designation of Test Vehicle: ZG1200-A1
- 29. Test Information Number: 86-1
- 30. Vehicle ID: JKAZG9A19GA000012
- 31. Service Accumulation Duration: 15000
- 32. Maximum Rated Power: 71.3 kW @ 7000 RPM
- 33. Displacement: 1196 cc
- 34. Certification Fuel: <u>Indolene: 91-95 RON</u>
- 35. Test Data Set: Test 1

- 36. Road Load: 163.7 nt at 65 kph
- 37. Inertia Mass: 440 kg
- 38. N/V: 29.41
- EVAP. Bench Test Method Approved:

Date: <u>2/23/1983</u>

Reference: 84ARB-03

- 40. Unscheduled Maintenance: \_\_\_ Yes X No
- 41. If yes, Vehicle Log provided:

42. Exhaust Emission Deterioration Factors:

		Emission Values			
Test Number	System Kilometers	HC	CO		
1	3662	0.94	8.2		
2	4815	1.25	5.9		
3	4844	1.25	7.6		
4	10039	0.95	8.6		
5	10069	1.06	8.0		
6	15013	0.97	8.9		
7					
Interpolated Va	lues at <u>15000</u> km:	HC = 0.9592	2 CO = 8.9200		

Interpolated Values at 15000	km:	HC = 0	.9592	CO=	8.9200
Extrapolated Values at 30000	km:	HC = 0.	.7192	CO =	11.2012

Regular DF	X
Modified DF	
If different vehicle I	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	СО	8.9			/
g/km	CO <sub>2</sub>	114.9			
g/km	HC	0.97			
g/test	Evap.	1.060			

	Deterioration Factors
(X)	1.256
( <b>X</b> )	1.000
(+)	0.047

Certification Levels:

g/km	CO	11		1
g/km	HC	1.0		
g/test	Evap.	1.107		

Application Processed by: Foreph Jegede Date: 6/8/2000 Reviewed by: 1/fords Date: 6/8/60