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KAWASAKI HEAVY INDUSTRIES, LTD.

EXECUTIVE ORDER M-1-318 New On-Road Motorcycles

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 2001 model-year engine and emission control systems (ECS) produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles:

Engine Family Evaporative Family Displacement (cm³) Class ECS & Special Features 1KAXC.899AAB 1KAXE17.0A04 899 PAIR, OC(2)

Vehicle Models (Equivalent Inertia Mass): ZX900-E2 (340 kg)

Production motorcycles shall be in all material respects the same as those for which certification is granted.

The exhaust emission standards and certification values in grams per kilometer for hydrocarbons (HC) and carbon monoxide (CO), and the HC evaporative (Evap) standard and certification value in grams per test for this engine/evaporative family are as follows. The designated HC standard shall be listed on the permanent tune-up label:

	HC	CO	Evap HC
Standard: (Effective Standard)	1.4	12	2.0 (1.8)
Designated Standard:	0.7	n/a	n/a
Certification:	0.4	2	0.8

BE IT FURTHER RESOLVED: That the designated HC standard shall be the exhaust limit for this engine family and cannot be changed during the model-year. It represents the HC exhaust emission standard applicable to this engine family for determining compliance with Title 13, California Code of Regulations, Sections 1958(b) and 2101.

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 seg.).

BE IT FURTHER RESOLVED: That because the listed motorcycles are certified to 0.2 grams per test or more below the applicable evaporative emission standard, the vehicles are exempt from complying 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 8 day of October 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

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Revised:

Motorcycle Engine Family Information Form

1.	Manufacturer: KA	WASAKI HEAVY INDU	JSTRI	ES, LTD.		
2.	Certification Conta Jeffrey D. Shetler Kawasaki Motors 9950 Jeronimo Ro Tel: 949-770-040	Corp., U.S.A. oad, Irvine, CA 92618-2	2084			
3.	Model Year: _200	1	1	10. Displacement: 8	899 cm ³	
4. Process Code: New (new, correction, revision, r/c, f/f. etc.)				Number of Cylinders: 4 Cylinder Arrangement: Inline-4		
5.	5. Engine Family: <u>1KAXC.899AAB</u> 50s Engine Code: 49s Engine Code: Calif. Engine Code: <u>ZX900E-AC1</u>			13. Cylinder Head Configuration: <u>DOHC</u>14. Type of Cooling: <u>Liquid</u>		
6.	6. Emission Control System: PAIR. OC (2)			15. Combustion Cycle: 4		
7.	7. Calif. Designated Standard: 0.7gm/km			16. Method of Aspiration: Natural		
8. 9.		Yes X No respondence or reference	the	17. Fuel System: <u>Car</u>18. Number of Catalyti		
19.	Adjustable Paramet	ers:				
	Parameter(s)	Adjustable Range (or NA)	Tan	nper Resistance Method (or NA)	Method Approved	
car	adjuster on buretor (Air/Fuel Ratio)	NA		mper proof cap is placed r the adjusting screw.	Carry over	
20.	AECDs In the Emis	sion Control Systems:				
Exl	naust System			Evaporative System		
AE	CDs In System:	PAIR, OC (2)		AECDs In System:	Sealed loop with canister	

(Model Year) / (Manufacturer) Motorcycle

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Revised:

E.O. #: M-1-31

Engine Family: 1KAXC.899AAB

Motorcycle Test Information Form

0.35

- 27. Are you carrying over test results from a previously certified family? X Yes ___ No
 - a) If yes, indicate family name: WKAXC.899AAB
 - 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: ZX900-C1
- 29. Test Information Number: 98-1
- 30. Vehicle ID: JKAZX2C1XWA000006
- 32. Maximum Rated Power: 104 kW @ 11000 RPM
- 33. Displacement: 899 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: 41.09
- 39. EVAP. Bench Test Method Approved:

Date: 6/21/1985

Reference: EO M-1-61

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

42. Exhaust Emission Deterioration Factors:

Extrapolated Values at 30000 km:

		Emissi	on Values
Test Number	System Kilometers	HC	CO
1	3512	0.51	1.3
2	6012	0.47	1.9
3	6101	0.42	1.0
4	12012	0.45	1.1
5	12101	0.45	0.9
6	15012	0.39	1.7
, 7 *1	15084	0.57	1.6
8 *2	15114	0.59	1.6
Interpolated V	alues at <u>15000</u> km:	HC = 0.4103	CO = 1.2592

Regular DF	X
Modified DF	
If different vehicle	

*1 This emission test was performed in order to confirm the previous EPA's approval test data which was submitted in 1998 model year certification.

 $HC = 0.3132 \quad CO = 1.2404$

*2 This emission test was performed with new parts(Air cleaner, Cab, ICM) and using fuel of 95-99 RON.

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	со	1.7			/
g/km	CO ₂	157.1			
g/km	HC	0.39			
g/test	Evap.	0.721			

(X) 1.000
(X) 1.000

(+)

Deterioration

0.095

44. Certification Levels:

g/km	СО	(2)	
g/km	HC	0.4	
g/test	Evap.	0.816	

Application Processed by: Foseph Tegeda Date: 10/13/2000 Reviewed by: Ret

Date: 10/13