State of California AIR RESOURCES BOARD

EXECUTIVE ORDER M-3-308 Relating to Certification of New Motorcycles

YAMAHA MOTOR CO., 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 2000 model-year Yamaha Motor Co., Ltd. exhaust emission control systems are certified as described below for four-stroke gasoline-powered motorcycles:

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
YYMXC.600GCA	600	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:

Hydrocarbon St		Hydrocarbons	Carbon N	Monoxide
(Corporate Average) Grams per	Grams per	Grams per	Grams per	Grams per
Kilometer	Kilometer	Kilometer	Kilometer	Kilometer
1.0	1.4	1.1	12	8

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 30 day of September 1999.

R. B. Summerfield, Chief

Mobile Source Operations Division

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Revised:

Engine Family: YYMXC.600GCA

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)
YZF-R6C	V	600	65.5 / 44.5	5	79.4	11500	64.7	10000

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
YZF-R6C	280		131.4	189	193.40	MT-6	53.3
. 40 5 1 1 1			1904			W -	

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Revised:

Motorcycle Engine Family Information Form

١.	Manuf	act	urer	YAMAI	A MOTOR	co.	UD.	
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Phone No.:	Michael J. Schmitt Division Manager Government Relations Yamaha Motor Corporation 6555 Katella Avenue Cypress, California 96 (714) 761-7710 (714) 229-7940	on, U.S.A. Motorcycle O Yamaha Motor 2500 Shingai	Administration Division perations Group Co., Ltd., Iwata-shi f. 438-8501, Japan
Emission Contro Calif.Designate Projected Annua New Technology	YYMXC. 600GCA Code: Code: e Code: y System: PAIR d Standard: 1.4g/km l Sales: Yes V No he correspondence or redocument:	14. Type of Cool 15. Combustion C 16. Method of As 17. Fuel System: 18. Number of Ca	linders: ± angement: <u>L-4</u> d Configuration: <u>DOHC</u> ing: <u>Water</u> ycle: ± piration: <u>Natural</u>
Parameter(s)	(A.100.681.9781.)	Tamper Resistance Method (or NA)	Method Approved
(3)			
AECDs In the Em	ission Control Systems:	F\7.	
AECDs In the Em	ission Control Systems:	N/A Evaporative System	

PROCESSED By: Suttan DATE: 9/29/19 REVIEWED BY: Stever Vash DATE: 9/29/99

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Revised:

Engine Family: YYMXC.600GCA

Motorcycle Test Information Form

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

a) If yes, indicate family name: XYMXC.600GCA

- 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: YZF-R6C
- 29. Test Information Number: <u>J504</u>
- 30. Vehicle ID: JYARJO4Y9XA000003
- 31. Service Accumulation Duration: 3 months
- 32. Maximum Rated Power: <u>79.4 kW @ 11500 RPM</u>
- 33. Displacement: 600 cc
- 34. Certification Fuel: Unleaded Gasoline
- 35. Test Data Set: 6

- 36. Road Load: 131.4 NT at 65km/h
- 37. Inertia Mass: 280 kg
- 38. N/V: 53.3
- 39. EVAP. Bench Test Method Approved:

Date: January 12, 1982

Reference:

40. Unscheduled Maintenance: Yes v No

41. If yes, Vehicle Log provided:

42. Exhaust Emission Deterioration Factors:

		Emissi	on Values
Test Number	System Kilometers	HC	СО
1	3530	1.15	9.3
2	7047	1.10	8.0
3	7077	1.04	7.7
4	13093	1.10	7.9
5	13123	1.05	7.8
6	15063	1.13	8.2
7		N	

Extrapolated Values at 30000 km: HC= 1.0644 CO= 6.7331

Regular		V
lodifie	d DF	
f diff	erent	vehicle
	vehic	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	CO	8. 2			
g/km	CO2	94. 2			
g/km	HC	1.13			dinia.
g/km	Evap.	0.99			

Deterioration Factors (X)

0.8647 ---

(1.000)

(X) (+)

0.9791 0.0046 (1 000)

44. Certification Levels:

g/km	CO (8)	
g/km	HC (1.1	
g/km	Evap. 1.0	