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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER M-6-76 Relating to Certification of New Motorcycles

BAYERISCHE MOTOREN WERKE AG

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 Bayerische Motoren Werke AG 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
YBMXC01.2K12	1171	III	Multiport Fuel Injection Three Way Catalytic Converter Heated Oxygen Sensor

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 Standards		Hydrocarbons		
(Corporate Average)	(Designated)	(Certification)	(Standard)	(Certification)
Grams per	Grams per	Grams per	Grams per	Grams per
Kilometer	Kilometer	Kilometer	Kilometer	Kilometer
1.4	0.9	0.7	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 seg.).

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 ____ day of September 1999.

R. B. Summerfield, Chief

Mobile Source Operations Division

Issued:7/15/99 Revised:

Engine Family: YBMXC01.2K12

Motorcycle Model Summary Form

65. Model Designation	66. Wors t 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)
K1200RS	X	1171	70,5/75	6° static	96	8750	117	6750

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
K1200RS	360	356 - 365	147,4	500	285	M-6	36,0

Issued:7/15/99 Revised:

Engine Family: YBMXC01.2K12

Motorcycle Test Information Form

 a) If yes, indicate family name: XBMXC01.2K12 b) Is the family being certified identical to the family 	nily from which the data is being carried over? Yes
28. Model Designation of Test Vehicle: K1200RS	36. Road Load: <u>147,4 N</u>
29. Test Information Number: K12	37. Inertia Mass: 360 kg
30. Vehicle ID: <u>V 401532</u>	38. N/V: <u>36,0</u>
31. Service Accumulation Duration: 15063 (km)	39. EVAP. Bench Test Method Approved: Date: 1997
32. Maximum Rated Power: 96 kW @ 8750 RPM	Reference: V 401530
33. Displacement: 1171 cc	40. Unscheduled Maintenance: Yes X No
34. Certification Fuel: <u>95 RON</u>	41. If yes, Vehicle Log provided:

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

42. Exhaust Emission Deterioration Factors:

35. Test Data Set: 1

		Emis	ssion Values	
Test Number	System Kilometers	HC	CO	
1	3548	0,919	7,402	
2	10043	1,185	9,901	
3	10072	0,901	7,239	
4	15063	0,737	7,243	
5				
6				
7				
Interpolated V	'alues at 15 000 km:	HC = 0.8647	CO = 7,9450	
Extrapolated \	Values at 30 000 km:	HC = 0,6650	CO = 7,9414	

Regular DF	X
Modified DF	
If different veh	icle
specify vehicle	ID

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	со	7,243			
g/km	CO ²	162,9			
g/km	HC	0,737			
g/test	Evap.	0,670			

_	eterioration Factors
	1,000
-	
_	1,000
	0,163

(X)

(X) (+)

44. Certification Levels:

7	СО	(7,24)	
g/km			
g/km	HC	(0,737)	
g/test	Evap.	0,833	

Issued: 7/15/99

Revised:

Motorcycle Engine Family Information Form

	nufacturer: <u>B</u>	MW						
Mr.	.Gordon B. Ke		e, and fax:	RECEIVED				
Mo	IW of North A entvale, N.J. 07 one No. 201-5	7645		JUL 29 1999				
	No. 201-9			Division Chief/MSOD (RBS)				
3. Mo	del Year: 200	0	10. Displacemen					
	ocess Code: ne		11. Number of C	cylinders: 4				
(ne	ew, correction,	revision, r/c, f/f. etc.)	12. Cylinder Arr	angement: inline				
5. Eng	gine Family: Y 50s Engine C 49s Engine C		13. Cylinder Hea	d Configuration: OHC				
	Calif. Engine		14. Type of Cool	14. Type of Cooling: Water				
6. Emission Control System: MFI, TWC, HO ₂ S			15. Combustion	15. Combustion Cycle: 4 stroke				
7. Cali	if. Designated	Standard: 0,9 g/km HC	16. Method of A	spiration: <u>natural</u>				
8. Proj	jected Annual	Sales total California	17. Fuel System:	FI atalytic Converters: 2				
If y sub								
	rameter(s)	Adjustable Range	Tamper Resistance Me	thod Method Approved				
	n timing	(or NA) N.A.	(or NA) N.A.					
T 'a'		N.A.	N.A.					

Throttle position sensor

Oxygen sensor Throttle valve actuator

Issued:7/15/99 Revised:

Engine Family: YBMXC01.2K12

Evaporative Emission Information

45. Evaporative Family: YBMXC0024K12

46. Number of Evap. Canisters: 1

47. Design Working Capacity: 24 g

48. Configuration: plastic can

49. Number of Storage Areas: 1

50. Fuel Reservoir Volume: 201

51. Vent System Configuration: purge

52. Nominal Tank Capacity: 201

53. Engine Displacement Class: III

54. Storage Medium Composition: charcoal

55. Evap. Canister Medium Volume: 450 cm³

56. Evap. Family Sales: 100 (California)

57. Engine Code: 50s

58. Evap. Emission Family Code: 50s

59. Evap. Emission Family Group: NA

60. Overall Evap D.F. = 0,163

Bench DF

61. Test Vehicle ID: V 401530

62. Test Results:

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3500	0,443
2	10000	0,473
3	15000	0,703
4		
5		
6		
7		
Interpolated V	falues at 15000 km: = 0	,660
Extrapolated \	Values at $30000 \text{ km} := 0$,985
Bench Test D.	F. = 0,326	

Regular DF:	X
Modified DF:	
If different vehicl	e
specify the vehicl	e ID

Vehicle DF

63. Test Vehicle ID: V 401532

Vehicle Test D.F. = -0.512 = 0.0

64. Test Results.

Test Number	System Kilometers	Evap. Emission Values (g/test)
1	3548	1,07
2	10043	1,09
3	10072	0,72
4	15063	0,67
5		
6		
7	15	
Interpolated V	alues at 15000 km : = 0	,706

Processed by Hate Date 9/2/19
Reviewed by Sta Uste 09/03/90