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California Environmental Protection Agency AIR RESOURCES BOARD	MuZ, Mottorrad- und Zweiradwerk G.m.b.H	EXECUTIVE ORDER M-24-6-1 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 (cm^3)	Class	ECS & Special Features
1MZXC.660ARA	1MZXE0032POA	660	III	EM

Vehicle Models (Equivalent Inertia Mass): Skorpion (Sport, Tour, Traveller, Replica, Baghira, Mastiff) (290 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:

	HC	CO	Evap HC
Standard: (Effective Standard)	1.0	12	2.0 (1.8)
Certification:	0.8	2	0.4

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 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.

Executive Order M-24-6 issued November 30, 2000, is hereby cancelled and replaced by Executive Order M-24-6-1.

Executed at El Monte, California this 22nd day of January 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division

Motorcycle Engine Family Information Form

1. Manufacturer: **Motorrad of North America**

2. Certification Contact Person, address, phone, and fax:

Kathleen Wolf 1275 N. Indian Hill Blvd. Claremont, CA 91711	tel: (909) 626-1395 fax: (909) 626-2906

3. Model Year: **2001**

4. Process Code: **new**
(new, correction, revision, r/c, f/f. etc.)

5. Engine Family: **1MZXC.660ARA**
50s Engine Code: _____
49s Engine Code: _____
Calif. Engine Code: _____

6. Emission Control System: **EM**

7. Calif. Designated Standard: _____

8. Projected Annual Sales:
CONFIDENTIAL

9. New Technology ___ Yes X No
If yes, cite the correspondence or reference the submittal document: _____

10. Displacement: **660 cc**

11. Number of Cylinders: **1**

12. Cylinder Arrangement: **1-16°**

13. Cylinder Head Configuration: **SOHC**

14. Type of Cooling: **air**

15. Combustion Cycle: **4-stroke**

16. Method of Aspiration: **natural**

17. Fuel System: C

18. Number of Catalytic Converters: _____

19. Adjustable Parameters:

Parameter(s)	Adjustable Range (or NA)	Tamper Resistance Method (or NA)	Method Approved

20. AECDs In the Emission Control Systems:

Exhaust System	Evaporative System
AECDs In System:	AECDs In System:

Engine Family: 1MZXC.660ARA

Motorcycle Test Information Form

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27. Are you carrying over test results from a previously certified family? X Yes ___ No
    a) If yes, indicate family name: **XMZXC.660ARA**
    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: **Skorpion Sport**
29. Test Information Number: ___
30. Vehicle ID: **SNZ6SE200R7501322**
31. Service Accumulation Duration: _____(km)
32. Maximum Rated Power: 35 kW @ 6250 RPM
33. Displacement: 660 cc
34. Certification Fuel: _____
35. Test Data Set: 1
36. Road Load: 133.4
37. Inertia Mass: 290
38. N/V: 35.5
39. EVAP. Bench Test Method Approved:
    Date: _____
    Reference: _____
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	3532	.575	10.39
2	6011	.615	6.38
3	6041	.809	7.16
4	11,997	.666	3.21
5	12,027	.695	3.05
6	15,045	.712	2.11
7			
Interpolated Values at 15,000 km:		**HC = .7124**	**CO = 1.3062**
Extrapolated Values at 30,000 km:		**HC = .7982**	**CO = -8.7159**

Check one:	
Regular DF	X
Modified DF	
If different vehicle specify vehicle ID	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4		Deterioration Factors
g/km	CO	2.11				(X)	1.00
g/km	CO^2	92.0					_____
g/km	HC	0.712				(X)	1.1204
g/test	Evap.	0.35				(+)	0.08

44. Certification Levels:

g/km	CO	2.11			
g/km	HC	0.798			
g/test	Evap.	0.43			

Application Processed by: Joseph Jegede Date: 11/29/00
Reviewed by: S Hada Date: 11/29/00