File

California Environmental Protection Agency AIR RESOURCES BOARD	APRILIA S.p.A.	EXECUTIVE ORDER M-043-0006 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 engine and emission control systems produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles. Production vehicles shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	EVAPORATIVE FAMILY	DISPLACEMENT (cc)	CLASS
2001	1ASPC0.99PWC	1ASPE0024MLA	998	III

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	VEHICLE MODELS (equivalent inertia mass in kilograms, kg)
Oxidation Catalytic Converter, Sequential Multiport Fuel Injection	RST 1000 FUTURA (310 kg)

The following are the exhaust hydrocarbon and carbon monoxide emission standards, or designated hydrocarbon standard as applicable, and certification levels in grams per kilometer (g/km) and the evaporative standard and certification level in grams per test (g/test) for this engine/evaporative family. The designated hydrocarbon standard, as applicable, shall be listed on the permanent tune-up label.

HYDROCARBON (g/km)				CARBON MONOXIDE (g/km)		EVAPORATIVE (g/test)	
CORPORATE AVERAGE STANDARD	DESIGNATED STANDARD	(DIRECT) STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL	STANDARD	CERTIFICATION LEVEL
*	*	1.4	0.9	12	4	2.0	0.9
* = not applicable							

BE IT FURTHER RESOLVED: That certification to the designated hydrocarbon standard listed above, as applicable, is subject to the following terms, limitations and conditions:

The designated hydrocarbon standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the hydrocarbon 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, Sections 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.

This Executive Order is only granted to the engine family and model-year listed above. Vehicles in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 26th day of July 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division

ED # M-043-0006

Motorcycle Engine Family Information Form

1. Manufacturer: **Aprilia S.p.a.**

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

	Kathleen H. Wolf tel: 909 – 626 – 1395 fax: 909 – 626 – 2906 Harrison & Wolf Consulting 1275 N. Indian Hill Blvd. - Claremont, CA 91711

3. Model Year: **2001**

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

5. Engine Family: **1ASPC0.99PWC**
50s Engine Code: _____
49s Engine Code: X
Calif. Engine Code: X

6. Emission Control System: **OC**, SFI

7. Calif. Designated Standard: N/A

8. Projected Annual Sales:

CONFIDENTIAL

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

10. Displacement: **998** cc

11. Number of Cylinders: **2**

12. Cylinder Arrangement: **V 60°**

13. Cylinder Head Configuration: DOHC

14. Type of Cooling: **liquid cooled**

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

16. Method of Aspiration: **natural**

17. Fuel System: **injection**, SFI

18. Number of Catalytic Converters: **1**

19. Adjustable Parameters: **N/A**

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:

Motorcycle Test Information Form

27. Are you carrying over test results from a previously certified family? ___ Yes _X_ No
    a) If yes, indicate family name: _____
    b) Is the family being certified identical to the family from which the data is being carried over? _____

28. Model Designation of Test Vehicle: RST 1000 FUTURA
29. Test Information Number: 2736
30. Vehicle ID: ZD4PW0000YS000004
31. Service Accumulation Duration: 15.000 (km)
32. Maximum Rated Power (SAE): 76.9 kW @ 9250 RPM
33. Displacement: 998 cc
34. Certification Fuel: Indolene
35. Test Data Set: 1
36. Road Load: 137.5 nt
37. Inertia Mass: 310
38. N/V: 37.3
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	3450	1.152	7.436
2	7966	1.053	7.117
3	8027	1.055	6.156
4	15084	0.877	4.189
5			
6			
7			
Interpolated Values at 15000 ~~km:~~		**HC = 0.883**	**CO = 4.390**
Extrapolated Values at 30000 km:		**HC = 0.525**	**CO = 0.068**

Check one:	
Regular DF	✓
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	4.189				(x)	1
g/km	CO_2	117.004					----------
g/km	HC	0.877				(x)	1
g/test	Evap.	0.439				(+)	0.5

44. Certification Levels:

g/km	CO	4.189			
g/km	HC	0.877			
g/test	Evap.	0.939			

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