



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.

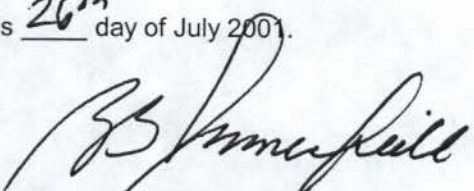
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Sections 2035 et seq.).

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



Motorcycle Engine Family Information Form

1. Manufacturer: **Aprilia S.p.a.**
2. Certification Contact Person, address, phone, and fax:

	<u>Kathleen H. Wolf</u> tel: 909 - 626 - 1395 fax: 909 - 626 - 2906 Harrison & Wolf Consulting 1275 N. Indian Hill Blvd. - Claremont, CA 91711
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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: 998cc
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:

Test Number	System Kilometers	Emission Values	
		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:		HIC = 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
g/km	CO	4.189			
g/km	CO ₂	117.004			
g/km	HC	0.877			
g/test	Evap.	0.439			

(x)

(x)

(+)

Deterioration
Factors

1

1

0.5

44. Certification Levels:

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

Processed by: RRunyon date: 06/29/01

Reviewed by: Shack

date: 7/24/01