



California Environmental Protection Agency

AIR RESOURCES BOARD

APRILIA S.p.A.

EXECUTIVE ORDER M-43-5
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:

<u>Engine Family</u>	<u>Evaporative Family</u>	<u>Displacement (cm³)</u>	<u>Class</u>	<u>ECS & Special Features</u>
1ASPC0.15PCB	1ASPE0024MLA	151	I	OC

Vehicle Models (Equivalent Inertia Mass): Scarabeo 150 (230 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:

	<u>HC</u>	<u>CO</u>	<u>Evap HC</u>
<u>Standard:</u> (Effective Standard)	1.0	12	2.0 (1.8)
<u>Certification:</u>	0.8	9	1.1

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.

Executed at El Monte, California this 23rd day of March 2001.

for R. B. Summerfield, Chief
Mobile Source Operations Division

Issued:

Revised: E.O.#: M-43-5

Motorcycle Engine Family Information Form

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

<p>Kathryn Hutton tel: 770 - 592 - 2261 (extension 111) Aprilia U.S.A. Inch fax: 770 - 592 - 4878 110 Londonderry Ct. Woodstock, GA 30188</p>	<p>Kathleen H. Wolf tel: 909 - 626 - 1395 Harrison & Wolf Consulting fax: 909 - 626 - 2906 1275 N. Indian Hill Blvd. Claremont, CA 91711</p>
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3. Model Year: '01
4. Process Code: new submission
 (new, correction, revision, r/c, f/f. etc.)
5. Engine Family:
 50s Engine Code: 1ASPC0.15PCB
 49s Engine Code:
 Calif. Engine Code:
6. Emission Control System: OC
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: 151cc.
11. Number of Cylinders: 1
12. Cylinder Arrangement: 10° referring to the horizontal axle
13. Cylinder Head Configuration: OHC
14. Type of Cooling: liquid cooled
15. Combustion Cycle: 4 - stroke
16. Method of Aspiration: natural
17. Fuel System: carb
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: N/A

Exhaust System	Evaporative System
AECDs In System: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	AECDs In System: <u> </u> <u> </u> <u> </u> <u> </u>

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Engine Family: 1ASPC0.15PCB

Motorcycle Test Information Form

0.1

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: Scarabeo 150

36. Road Load: ~~1491 kg~~ 121.2

29. Test Information Number: 2565

37. Inertia Mass: 230 kg

30. Vehicle ID: ZD4PC0000YS100752

38. N/V: 85.9

31. Service Accumulation Duration: 6,000 (km)

39. EVAP. Bench Test Method Approved:

Date: _____

32. Maximum Rated Power: 9.8 kw @ 8500 RPM

Reference: _____

33. Displacement: 151 cc

40. Unscheduled Maintenance: ___ Yes X No

34. Certification Fuel: (M+R)/2=90 unleaded fuel

41. If yes, Vehicle Log provided: _____

35. Test Data Set: 001

42. Exhaust Emission Deterioration Factors:

Test Number	System Kilometers	Emission Values	
		HC	CO
1	2735	0.536	8.012
2	3759	0.495	4.802
3	4910	0.542	6.216
4	6133	0.612	7.907
5			
6			
7			
Interpolated Values at 6000 km:		HC = 0.587	CO = 6.955
Extrapolated Values at 12000 km:		HC = 0.737	CO = 7.773

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
g/km	CO	7.907			
g/km	CO ²	72.667			
g/km	HC	0.612			
g/test	Evap.	0.587			

Deterioration Factors
(X) 1.118

(X) 1.256
(+) 0.5

44. Certification Levels:

g/km	CO	8.838		
g/km	HC	0.769		
g/test	Evap.	1.087		

Application Processed by: Joseph Jegede

Date: 3/23/01

Reviewed by: K. Pryor

Date: 3/23/01