

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:

Engine Family Evaporative Family Displacement (cm³) Class ECS & Special Features

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:

	HC	CO	Evap HC
Standard: (Effective Standard)	1.0	12	2.0 (1.8)
Certification:	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 23 day of March 2001.

AR. B. Summerfield, Chief Mobile Source Operations Division

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Issued:

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

Motorcycle Engine Family Information Form

Kathryn Hutton Aprilia U.S.A. In 110 Londonderry Woodstock, GA	Ct.	H 13	athleen H. Wo Iarrison & Wo 275 N. Indian I Iaremont, CA	f Consulting fax: 909 – 626 – 2906 Hill Blvd.	
3. Model Year: '0		10. Displa	cement: 151c	<u>c.</u>	
4. Process Code: no (new, correction	ew submission , revision, r/c, f/f. etc.)		er of Cylinder		
5. Engine Family:		13. Cylind	 Cylinder Arrangement: 10° referring to the horizontal at 13. Cylinder Head Configuration: OHC Type of Cooling: liquid cooled Combustion Cycle: 4 - stroke Method of Aspiration: natural 		
		15. Combi			
		16. Metho			
8. Projected Annual		17. Fuel S	ystem: <u>carb</u>		
O. New Technology If yes, cite the co	rrespondence or reference t ent:		r of Catalytic	Converters: 1	
). New Technology If yes, cite the co	Yes <u>X</u> No prespondence or reference t ent:		ce Method	Converters: 1 Method Approved	
New Technology If yes, cite the consubmittal docum Adjustable Param	Yes X No prrespondence or reference tent: eters: N/A Adjustable Range	he Tamper Resistan	ce Method		
9. New Technology If yes, cite the consubmittal docum 9. Adjustable Param Parameter(s)	Yes X No prrespondence or reference tent: eters: N/A Adjustable Range	Tamper Resistan (or NA	ce Method		
9. New Technology If yes, cite the consubmittal docum 9. Adjustable Param Parameter(s)	Yes X No prrespondence or reference tent: eters: N/A Adjustable Range (or NA)	Tamper Resistan (or NA	ce Method) System		

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Engine Family: 1ASPC0.15PCB

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: Scarabeo 150
- 29. Test Information Number: 2565
- 30. Vehicle ID: ZD4PC0000YS100752
- 31. Service Accumulation Duration: 6,000 (km)
- 32. Maximum Rated Power: 9.8 kw @ 8500 RPM
- 33. Displacement: 151 cc
- 34. Certification Fuel: (M+R)/2=90 unleaded fuel
- 35. Test Data Set: 001

- 36. Road Load: 148 kg 121.2
- 37. Inertia Mass: 230 kg
- 38. N/V: 85.9
- 39. EVAP. Bench Test Method Approved:

Reference:

- 40. Unscheduled Maintenance: Yes X No
- 41. If yes, Vehicle Log provided: _____

42. Exhaust Emission Deterioration Factors:

	Emission Values		
System Kilometers	HC	CO	
2735	0.536	8.012	
3759	0.495	4.802	
4910	0.542	6.216	
6133	0.612	7.907	
THE RESERVE			
	2735 3759 4910	System Kilometers HC 2735 0.536 3759 0.495 4910 0.542	

Interpolated Values at 6000 km:	HC = 0.587 CO = 6.955

Extrapolated Values at 12000 km:	HC = 0.737	CO = 7.773

Regular DF	X
Modified DF	
If different vehi specify vehicle	

43. Emission Test Results:

Official Test Results		Test 1	Test 2	Test 3	Test 4
g/km	со	7.907			
g/km	CO ²	72.667			
g/km	HC	0.612			
g/test	Evap.	0.587			

(X)

(X)

-	Deterioration
L	Factors
	1.118
-	***************************************
L	1.256
	0.5

44. Certification Levels:

g/km		(8.838)	
g/km		0.769	
g/test	Evap.	(1.087)	

Application Processed by: Joseph Jegede Reviewed by: K. Pryse

Date: 3/23/01

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