

July

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 (cm<sup>3</sup>)</u>	<u>Class</u>	<u>ECS &amp; Special Features</u>
1PVMC0.15M19	1PVME0027M19	150	I	EM

Vehicle Models (Equivalent Inertia Mass): Vespa ET4 (190 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:

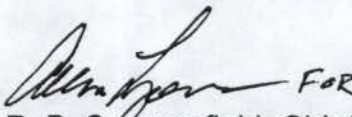
	<u>HC</u>	<u>CO</u>	<u>Evap HC</u>
<u>Standard:</u> (Effective Standard)	1.0	12	2.0 (1.8)
<u>Certification:</u>	0.8	8	1.1

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 16<sup>TH</sup> day of November 2000.

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

**Motorcycle Test Information Form**

0.125

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: **Vespa ET4**

36. Road Load: **113.1**

29. Test Information Number: **1**

37. Inertia Mass: **190 kg**

30. Vehicle ID: **ZAPM1900000011552**

38. N/V: **84.07**

31. Service Accumulation Duration: **6,000 km**

39. EVAP. Bench Test Method Approved:

Date: \_\_\_\_\_

32. Maximum Rated Power: **8.4 kW @ 7500 RPM**

Reference: \_\_\_\_\_

33. Displacement: **150 cc**

40. Unscheduled Maintenance: \_\_\_ Yes **X** No

34. Certification Fuel: **according to 40 CFR 86.513-90**

41. If yes, Vehicle Log provided: \_\_\_\_\_

35. Test Data Set: **1**

42. Exhaust Emission Deterioration Factors:

Test Number	System Kilometers	Emission Values	
		HC	CO
1	2504	0.66	6.88
2	3600	0.52	6.06
3	4800	0.68	6.81
4	6000	0.66	7.00
5			
6			
7			
Interpolated Values at 2,500 km:		HC = 0.605	CO = 6.5146
Extrapolated Values at 12,000 km:		HC = 0.7428	CO = 7.4679

Check one:	
Regular DF	<b>X</b>
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	7.00			
g/km	CO <sup>2</sup>	58.26			
g/km	HC	0.66			
g/test	Evap.	0.216			

Deterioration Factors
(X) 1.15
_____
(X) 1.23
(+) 0.87

44. Certification Levels:

g/km	CO	8.02		
g/km	HC	0.81		
g/test	Evap.	1.1		

Processed by Steve Hodge Date 11/9/00 Reviewed by Joseph Jegede Date 11/9/00

## Motorcycle Engine Family Information Form

1. Manufacturer: **Piaggio & C. S.p.A.**
2. Certification Contact Person, address, phone, and fax:

<b>Kathleen Wolf</b> <b>Harrison / Wolf</b> 1275 N. Indian Hill Blvd. Claremont, CA 91711	tel. (909) 626-1395 fax (909) 626-2906
----------------------------------------------------------------------------------------------------	-------------------------------------------

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> <li>3. Model Year: <b>2001</b></li> <li>4. Process Code: <b>New</b><br/>(new, correction, revision, r/c, f/f. etc.)</li> <li>5. Engine Family: <b>1PVMC0.15M19</b><br/>                     50s Engine Code: _____<br/>                     49s Engine Code: _____<br/>                     Calif. Engine Code: _____</li> <li>6. Emission Control System: <b>E.M.</b></li> <li>7. Calif. Designated Standard: <b>1.0</b></li> <li>8. Projected Annual Sales:<br/> <div style="text-align: center; font-size: 2em; font-weight: bold; opacity: 0.5;">CONFIDENTIAL</div> </li> <li>9. New Technology ___ Yes <b>X</b> No<br/>                     If yes, cite the correspondence or reference the submittal document: _____</li> </ol> | <ol style="list-style-type: none"> <li>10. Displacement: <b>150 cc</b></li> <li>11. Number of Cylinders: <b>1</b></li> <li>12. Cylinder Arrangement: <b>forward inclined</b></li> <li>13. Cylinder Head Configuration: <b>SOHC</b></li> <li>14. Type of Cooling: <b>air</b></li> <li>15. Combustion Cycle: <b>4 stroke</b></li> <li>16. Method of Aspiration: <b>natural</b></li> <li>17. Fuel System: <b>gravity feed</b></li> <li>18. Number of Catalytic Converters: <b>N.A.</b></li> </ol> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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: _____ _____ _____ _____ _____