File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER M-36-2
Relating to Certification of New Motorcycles

VICTORY MOTORCYCLES DIVISION, POLARIS INDUSTRIES, INC.

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 2000 model-year Victory Motorcycles Division, Polaris Industries, Inc. exhaust emission control systems are certified as described below for four-stroke gasoline-powered motorcycles:

Engine Family	Displacement Cubic Centimeters	Class	Exhaust Emission Control Systems & Special Features
YVMCC01.5V92	1507	III	Sequential Multiport Fuel Injection

Vehicle models and transmissions are listed on the attachment. Production motorcycles shall be in all material respects the same as those for which certification is granted.

The following are the exhaust emission standards and certification emission values for this engine family:

Hydrocarbons (Standard) Grams per Kilometer	Hydrocarbons (Certification) Grams per Kilometer	Carbon Monoxide (Standard) Grams per Kilometer	Carbon Monoxide (Certification) Grams per Kilometer
1.4	1.0	12	10

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 the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

BE IT FURTHER RESOLVED: That these motorcycles are found exempt from compliance 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 4th day of October 1999.

R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Family: YVMCC01.5V92

Motorcycle Model Summary Form

65. Model Designation	66. Worst Case	67. Disp. (cc)	68. Bore / Stroke (mm)	69. Basic Ignition Timing (degrees)	70 Power (hp)	71 Rated Speed (RPM)	72 Rated Torque (ft.lbs.)	73. Rated Speed (RPM)
V92SC	**X**	**1507**	**97/102**	**Controlled by EFI**	**67.5**	**5000**	**84**	**3000**
V92C					**65**	**4750**	**83**	**3500**

65. Model Designation	74. EIM (kg)	75. Loaded Vehicle Weight Range (kg)	76 Road Load (nt)	77 Total Vehicle Mass (kg)	78 Full Weight with All Factory Options (kg)	79. Trans. Type	80 N/V
V92SC	**380**	**382.1**	**151.7**	**302.1**	**302.1**	**m-5**	**27.5**
V92C							**25.6**

Motorcycle Engine Family Information Form

0.5

1. Manufacturer: **Victory Motorcycle Division, Polaris Industries, Inc.**

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

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

3. Model Year: **2000**

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

5. Engine Family: **YVMCC01.5V92**
50s Engine Code: _____
49s Engine Code: **X**
Calif. Engine Code: **X**

6. Emission Control System: **S.F.I.**

7. Calif. Designated Standard: **1.4 g/km**

8. Projected Annual Sales:
CONFIDENTIAL

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

10. Displacement: **1507 c.c.**

11. Number of Cylinders: **2**

12. Cylinder Arrangement: **50° - V-Twin**

13. Cylinder Head Configuration: **SOHC, OHV**

14. Type of Cooling: **air / oil**

15. Combustion Cycle: **4 stroke**

16. Method of Aspiration: **natural**

17. Fuel System: **F**

18. Number of Catalytic Converters: **N/A**

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:

Application Processed by: Joseph Jegede Date: 9/28/99
Reviewed by: _____ Date: 09/28/99

Engine Family: YVMCC01.5V92

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: **V92SC**

29. Test Information Number: **1**

30. Vehicle ID: **5VPCS15DXY3000124**

31. Service Accumulation Duration: **15,000 km**

32. Maximum Rated Power: **65 hp @ 4,750** RPM

33. Displacement: **1507 c.c.**

34. Certification Fuel: **Indolene**

35. Test Data Set: **1**

36. Road Load: **151.7**

37. Inertia Mass: **380**

38. N/V: **27.5**

39. EVAP. Bench Test Method Approved:
    Date: **N/A**

    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	**3513**	**0.741**	**5.398**
2	**7255**	**0.766**	**5.513**
3	**11305**	**0.889**	**8.442**
4	**14995**	**0.889**	**7.042**
5			
6			
7			
Interpolated Values at 15000 km:		**HC = 0.9063**	**CO = 7.7891**
Extrapolated Values at 30000 km:		**HC = 1.1287**	**CO = 10.9034**

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		Deterioration Factors
g/km	CO	**7.042**				**(X)**	**1.4037**
g/km	CO^2	**133.35**					----------
g/km	HC	**0.889**				**(X)**	**1.172**
g/test	Evap.	**0.689**				**(+)**	**0.5**

44. Certification Levels:

g/km	CO	**9.885**			
g/km	HC	**1.042**			
g/test	Evap.	**1.189**			