

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:

| <u>Engine Family</u> | <u>Displacement Cubic Centimeters</u> | <u>Class</u> | <u>Exhaust Emission Control Systems & Special Features</u> |
|----------------------|---|--------------|--|
| 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:

| <u>Hydrocarbons (Standard) Grams per Kilometer</u> | <u>Hydrocarbons (Certification) Grams per Kilometer</u> | <u>Carbon Monoxide (Standard) Grams per Kilometer</u> | <u>Carbon Monoxide (Certification) Grams per Kilometer</u> |
|--|---|---|--|
| 1.4 | 1.0 | 12 | 10 |

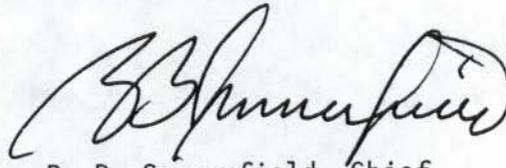
BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Code of Regulations, Section 2035 et seq.).

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

Issued:
Revised:

Motorcycle Engine Family Information Form

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

0.5

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 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 Tejada Date: 9/28/99

Reviewed by: [Signature] Date: 09/28/99

Issued:
Revised:

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:

| Test Number | System Kilometers | Emission Values | |
|---|-------------------|--------------------|---------------------|
| | | 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 |
|-----------------------|-----------------|--------|--------|--------|--------|
| g/km | CO | 7.042 | | | |
| g/km | CO ² | 133.35 | | | |
| g/km | HC | 0.889 | | | |
| g/test | Evap. | 0.689 | | | |

| Deterioration Factors |
|-----------------------|
| (X) 1.4037 |
| ----- |
| (X) 1.172 |
| (+) 0.5 |

44. Certification Levels:

| | | | | | |
|--------|-------|-------|--|--|--|
| g/km | CO | 9.885 | | | |
| g/km | HC | 1.042 | | | |
| g/test | Evap. | 1.189 | | | |