

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-02-003;

IT IS ORDERED AND RESOLVED: That the engine and emission control systems produced by the manufacturer are certified as described below for four-stroke gasoline-powered motorcycles. Production vehicles shall be in all material respects the same as those for which certification is granted. The manufacturer shall ensure that character "C" or "3" is <u>not</u> used in the eighth (8th) position of the vehicle identification number (VIN) of all vehicles in the engine family listed below. Violation of this VIN provision may result in incorrect registration of the vehicles.

| MODEL YEAR | ENGINE FAMILY | EVAPORATIVE FAMILY | ENGINE DISPLACEMENT (cc) | CLASS |
|---|------------------------------|---------------------------------------|--|--|
| 2005 | 5IMFC.750A02 | 5IMFE0066IMZ | 749 | H |
| | FEATURES & ONTROL SYSTEMS | | CLE MODELS a mass in kilograms, kg) | * ≃ not applicable |
| 2 | 2TWC | | 8.1037 8.1036 8.1236 8.1237 (410 kg, all models) | |
| ABBREVIATIONS: HO2S=heated O2S TBI=throttle body fu | EGR=exhaust gas recircula | tion AIR=secondary air injection PAII | R=pulsed AIR MFI=multi port fuel injection SF! | 2\$=oxygen sensor =sequential MFI) (suffix)=in series |

The following are the exhaust hydrocarbon (HC) and carbon monoxide (CO) standards, or designated HC standard as applicable, and certification levels in grams per kilometer (g/km), and evaporative standard and certification level in grams per test (g/test) for this engine/evaporative family. The designated HC standard, as applicable, shall be listed on the permanent tune-up label.

| | HC | (g/km) | | co | (g/km) | EVAPORA | (TIVE (g/test) |
|----------------------------------|------------------------|----------------------|------------------------|----------|------------------------|----------|------------------------|
| CORPORATE AVERAGE STANDARD | DESIGNATED STANDARD | (DIRECT) STANDARD | CERTIFICATION LEVEL | STANDARD | CERTIFICATION LEVEL | STANDARD | CERTIFICATION LEVEL |
| * | * | 1.4 | 0.4 | 12 | 5 | 2.0 | 1.6 |

BE IT FURTHER RESOLVED: That certification to the designated HC standard listed above, as applicable, is subject to the following terms, limitations and conditions:

The designated HC standard shall be the exhaust emission limit for this engine family and cannot be changed during the model year. It serves as the HC exhaust standard applicable to this engine family for determining compliance with Title 13, California Code of Regulations, Sections 1958(b) and 2101.

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

This Executive Order is only granted to the engine family and model-year listed above. Vehicles in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 974

day of March 2005.

Allen Jons, Chief Mobile Source Operations Division

CERTIFICATION SUMMARY

California Environmental Protection Agency AIR RESOURCES BOARD

ON-HIGHWAY MOTORCYCLES

| All Sales Codes with | MFC 15 | ດAo⊋ b. E | vaporative F | amily: 5 | EMPE0066IMZ | c. Evaporative | Group: | ya |
|---|---|---|---|--|---|--|--|---------------------|
| All walde Lander Wiff | ain Engine | Family: | 50- ≤T | | , | | | • |
| All Engine Displace | ment(s) in | Engine Far | nily (units i | in cubic cer | timeters, (cc)): | | | |
| 1) 77 60 | 2) | 1: | 3) | (4) | | 114 | | |
| Displacement Clas | s { 1 = (50-1 | 69cc), [] =(| (170-279cc) |), III =(280 | -699cc), III =(≥ 70 | 0 cc)}: | · | |
| Emission Standard | | | | | | | | |
| lf Corp. Avg., list D | | | | | | <u>.</u> | | |
| Engine Design: | esignateu | , canuar a. \ | g,, <u>,</u> | 8. I | ntake, Fuel and E | mission Contro | Systems (| ECS): |
| a. Combustion C | ycle: | | 4 ₅₀ | roke | a. Aftertreatment(| s): 2TWC | 3-way | CATALYST |
| | uel Ratio | | - | il | b. Sensor(s): | | nja | , |
| | | | <u>nja</u> | | c. Fuel System: | 0000 | T ' | |
| b. Engine Type: | | Reci | PROCATI | NG | d, Exhaust Gas Re | CARB | 1 | RETION |
| c. Valvetrain: | | P15701 | <u>u port</u> | eo | | | NO | |
| d. Total Number | | | | | e. Method of Aspi | | NATUR | AL_ |
| Valves (| (Ports) per (| Jylinder: | 2 | | f. Air Injection Re | eaction: | nja | |
| e. Type of Engine | e Cooling: | <u> </u> | AIF | , | g. Others: | <u>- </u> | nia_ | |
| f. Number of Cy | | <u> </u> | | | | | <u>, , , , , , , , , , , , , , , , , , , </u> | |
| | | | 2 | | | | | |
| g. Cylinder Arrai | | | PLAT | | | | | |
| Exhaust DF Values | (no less than | 1.000): HC:_ | _ID: 1,000 | ; NOx: | ; Carryov ; c. Durability Tes ; CO: /. | it Distance (km): 384 | | |
| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip | ino less than dues (no less tengine In R.128 Mass (kg): ment (e.g., co | 1.000): HC:_ than 0.000): A formation: ID: | ID: | _; NOx:; V+B:; O,; C ed Power, h Tran s, etc.): Yes/1 | .; c. Durability Tes .; CO: _/. 5; Vehicle: arryover from Eng p: 36 @ 5600 s: _m-4 No:NO | t Distance (km): 384 0.5 Be ine Family: 1 rpm ; Test Dates 4PG: 56 If Yes, descril | nch: 0.5 | |
| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip | ino less than dues (no less tengine In R.128 Mass (kg): ment (e.g., co | 1.000): HC:_than 0.000): A formation:ID:HO | ID: 1,000 Average of V New Test: Rate RLF: 3. ceial couplings | ; NOx:; NOx:; V+B:; Cod Power, hower, howe, etc.): Yes/NOx: | .; c. Durability Tes .; CO: /. 5 ; Vehicle: 2 arryover from Eng 2 p: 36 @ 5600 3: m-4 N | t Distance (km): 384 0.5 Be ine Family: Prpm ; Test Dates 4PG: 56 If Yes, descril | nch: 0.5 | |
| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip Certification Emi | in less than dues (no less tengine In less (kg): Mass (kg): ment (e.g., co | 1.000): HC:_than 0.000): A formation:ID: | ID: 1,000 Average of V New Test: Rate RLF: 3. coial couplings 3 | ; NOx:; NOx:; V+B:; Cod Power, howe, G Trans, etc.): Yes/1 | .; c. Durability Tes .; CO: _/. 5; Vehicle: arryover from Eng p: 36 @ 5600 s: _m-4 No:NO | t Distance (km): 384 0.5 Be ine Family: 1 rpm ; Test Dates 4PG: 56 If Yes, descril | nch: 0.5 ::89/02 ::ebelow: | |
| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip | ino less than dues (no less tengine In 8,128 Mass (kg): ment (e.g., co | 1.000): HC:_than 0.000): A formation:ID: | ID: 1,000 Average of V New Test: Rate RLF: 3. coial couplings 3 | ; NOx:; NOx:; V+B:; Cod Power, has, etc.): Yes/N | .; c. Durability Tes .; CO: _/. 5 ; Vehicle: arryover from Eng p: 36 @ 5600 s: | t Distance (km): 384 0.5 Beine Family: Prom ; Test Dates PG: 56 If Yes, describe the control of the contr | nch: 0.5 ::89/02 ::ebelow: | |
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| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip Certification Emi Test No. and Test Type | ino less than dues (no less tengine In 8,128 Mass (kg): ment (e.g., co | 1.000): HC:_than 0.000): A formation:ID: | New Test: Rate RLF: 3. ceial couplings HC+ e., no DFs) /test for Eve | ; NOx:; NOx:; V+B:; Cod Power, has, etc.): Yes/N | c. Durability Tes ; CO: /. 5 ; Vehicle: arryover from Eng p: 36 @ 5600 s: m-4 No CO: 4.71 HC NO | t Distance (km): 384 0.5 Beine Family: Prom ; Test Dates PG: 56 If Yes, describe the control of the contr | nch: 0.5 s: 8/9/02 oc below: s applied) est for Evap | - 9/13/c |
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| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip Certification Emi Test No. and Test Type | ino less than dues (no less tengine In R.128 Mass (kg): ment (e.g., co | 1.000): HC:_than 0.000): A formation:ID: | New Test: Rate RLF: 3. coial couplings 6. HC+ e., no DFs) /test for Eve | ; NOx:; NOx:; Cond Power, has, etc.): Yes/I | c. Durability Tes ; CO: /. 5 ; Vehicle: arryover from Eng p: 36 @ 5600 s: m-4 No CO: 4.71 HC NO | t Distance (km): 384 0.5 Beine Family: Prom ; Test Dates PG: 56 If Yes, describe the control of the contr | nch: 0.5 8/9/02 0.6 | = \frac{9}{13}/6 |
| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip Certification Emi Test No. and Test Type 1/5, D63 2 | ino less than dues (no less tengine In R.128 Mass (kg): ment (e.g., co | 1.000): HC:_than 0.000): A formation:ID: | New Test: Rate RLF: 3. coial couplings 6. HC+ e., no DFs) /test for Eve | ; NOx:; NOx:; Cond Power, has, etc.): Yes/I | c. Durability Tes ; CO: /. 5 ; Vehicle: arryover from Eng p: 36 @ 5600 s: m-4 No CO: 4.71 HC NO | t Distance (km): 384 0.5 Beine Family: Prom ; Test Dates PG: 56 If Yes, describe the control of the contr | nch: 0.5 s: 8/9/02 oc below: s applied) est for Evap | - 9/13/c |
| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip Certification Emi Test No. and Test Type 1/5, D6.3 2 3 Standard: | ino less than dues (no less tengine In R.128 Mass (kg): ment (e.g., co | 1.000): HC:_than 0.000): A formation:ID: | New Test: Rate RLF: 3. coial couplings 6. HC+ e., no DFs) /test for Eve | ; NOx:; NOx:; Cond Power, has, etc.): Yes/I | c. Durability Tes ; CO: /. 5 ; Vehicle: arryover from Eng p: 36 @ 5600 s: m-4 No CO: 4.71 HC NO | t Distance (km): 384 0.5 Beine Family: Prom ; Test Dates PG: 56 If Yes, describe the control of the contr | nch: 0.5 8/9/02 0.6 | = 9/13/6 Evap HC |
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| Exhaust DF Values Evaporative DF Va Certification Test Test Engine: Mode Equivalent Inertia Special Test Equip Certification Emi Test No. and Test Type 1/5, DG 3 2 3 | ino less than lives (no less tengine Intel 8.128 Mass (kg): ment (e.g., colored by the sion Level HC 0.36 | 1.000): HC:_ than 0.000): A formation:ID:HO poling fans, spo (raw) (i. (g/km; or g NOx | New Test: Rate RLF: 3. coial couplings 6. HC+ e., no DFs) /test for Eve | ; NOx:; NOx:; Cod Power, has, etc.): Yes/1 NOx:ap) Evap HC [. 142 | c. Durability Tes ; CO: /. 5 ; Vehicle: arryover from Eng p: 36 @ 5600 s: m-4 No CO: 4.71 HC NO | t Distance (km): 384 0.5 Beine Family: Prpm ;Test Dates (PG: 56 If Yes, descril Evaporative: (i.e., with DF (in g/km; or g/text) HC+NOx | nch: 0.5 8/9/02 0.6 | Evap HC (1.6) |