| California Environmental Protection Agency AIR RESOURCES BOARD | Kawasaki Heavy Industries, Ltd. | EXECUTIVE ORDER U-U-004-0334-2 New Off-Road Small Spark-Ignition Equipment |
|---|---|---|

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 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 following equipment produced by the manufacturer is certified as described below. Production equipment shall be in all material respects the same as those for which certification is granted.

**ENGINE DESCRIPTION**

| MANUFACTURER | ENGINE FAMILY (E.O. NUMBER) | ENGINE SIZE (cc) | FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas) |
|---|---|---|---|
| Kawasaki Heavy Industries, Ltd. | 7KAXS.5852CB (U-U-004-0325) | 585 | Gasoline |
| | 7KAXS.4942CA (U-U-004-0326) | 494 | |
| | 7KAXS.4722CA (U-U-004-0327) | 472 | |
| | 7KAXS.7642CA (U-U-004-0328) | 764 | |
| | 7KAXS.6752CA (U-U-004-0329) | 675 | |
| | 7KAXS.4312CA (U-U-004-0330) | 431 | |
| | 7KAXS.4012CB (U-U-004-0331) | 401 | |

* TBC = To Be Certified

**EQUIPMENT DESCRIPTION**

| MODEL YEAR | EVAPORATIVE FAMILY | FUEL TANK SIZE (liters) | EQUIPMENT APPLICATION |
|---|---|---|---|
| 2007 | N/A | N/A | Walk-Behind Lawnmower, Tractor, Commercial Turf, Golf Cart, Utility Vehicle |

| EMISSION CONTROL SYSTEMS (ECS) | EQUIPMENT MODEL |
|---|---|
| Low Permeation Fuel Hose | See Attachment |

A. **ECS TYPE** (Venting Control Type/Tank Barrier Type): 1. **Venting Control Type and Code**:- Canister=C Sealed Tank=S Other=O 2. **Tank Barrier Type and Code**:- Metal=M Treated HDPE or PE=P Co-extruded=C Selar=L Nylon=N Acetal=A Other=O B. **EVAPORATIVE FAMILY 2-Letter CODE** (Venting Control Codes =C, S, O); (Tank Barrier Codes = M, P, C, L, N, A, O). **Note**: Always list venting control type or code first before tank barrier type or code. Do not use abbreviations for ECS types.

The following are the evaporative emission standards (Title 13, California Code of Regulations, 13 CCR Section 2754(a) or 2754(b), as applicable), and certification levels in grams per day (g/day) or grams per square meter per day (g/m$^2$/day) or grams per liter (g/l) for this evaporative family or the component Executive Order, as applicable. The running loss emissions control has been demonstrated by the manufacturer.

**DESIGN BASED**

| FUEL HOSE PERMEATION (grams ROG/m$^2$/day) | | FUEL TANK PERMEATION (grams ROG/m$^2$/day) | | CARBON CANISTER BUTANE WORKING CAPACITY (grams HC/liter) | |
|---|---|---|---|---|---|
| STANDARD | CERTIFICATION LEVEL OR EXCUTIVE ORDER | STANDARD | CERTIFICATION LEVEL OR EXECUTIVE ORDER | STANDARD | CERTIFICATION LEVEL OR EXECUTIVE ORDER |
| 15 | G-05-017A, G-05-018 | * | * | * | * |

**BE IT FURTHER RESOLVED:** That for the listed equipment, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2759 (labeling) and 13 CCR Sections 2760 and 2764 (emission control system warranty).

Equipment 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. Equipment in this family that is produced for any other model-year is not covered by this Executive Order.**

This Executive Order hereby supersedes Executive Order U-U-004-0334-1 dated February 23, 2007.

Executed at El Monte, California on this 16th day of April 2007.

J. Lourenco

Annette Hebert, Chief
Mobile Source Operations Division

Attachment 1 of 1

**7FAXS.5852CB**
FH580
FH541

**7FAXS.4942CA**
FH451
FH500
FH531

**7FAXS.4722CA**
FH480
FH491
FH411

**7FAXS.7642CA**
FH770D
FH741D

**7KAXS.6752CA**
FH601V
FH641V
FH661V
FH680V
FH680D
FH721V
FH721D
FH601D
FH641D

**7KAXS.4312CA**
FH430
FH381

**7KAXS.4012CB**
FJ400D/A
FJ400D/B
FJ400D/C