California Environmental Protection Agency AIR RESOURCES BOARD	VOLVO PENTA OF THE AMERICAS, INC.	EXECUTIVE ORDER U-W-012-0042 New Spark-Ignition Marine Engines

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Sections 43013, 43018, 43101, 43102 and 43104; 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 new spark-ignition marine engine and emission control systems (ECS) produced by the manufacturer are certified as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	FUEL TYPE	DISPLACEMENT (cc)	LEVEL OF CLEANLINESS
2008	8VPAM05.7GXC	Gasoline	5000, 5700	Super Ultra Low Emission ("Four Stars")

EQUIPMENT APPLICATION	ECS & SPECIAL FEATURES	ENGINE TYPE
Sterndrive	Dual Three Way Catalytic Converter Heated Oxygen Sensor Multiport Fuel Injection On-Board Diagnostics	4-Stroke

ENGINE MODELS (rated power in kilowatts, kW)	5.0 GiC-J (175 kW), 5.0 GiCE-J (175 kW), 5.0 GiC-JF (175 kW), 5.0 GiCE-J (175 kW), 5.0 GXiC-J (201 kW), 5.0 GXiCE-J (201 kW), 5.0 GXiC-JF (201 kW), 5.0 GXiCE-J (201 kW), 5.7 GiC-300-J (224 kW), 5.7 GiCE-300-J (224 kW), 5.7 GiC-300-JF (224 kW), 5.7 GiCE-300-JF (224 kW), 5.7 GXiC-J (339 kW), 5.7 GXiCE-J (339 kW), 5.7 GXiC-JF (339 kW), 5.7 GXiCE-JF (339 kW)

BE IT ORDERED AND RESOLVED: That the listed engines are certified to a hydrocarbon plus oxides of nitrogen (HC+NOx) family emission limit (FEL) in accordance with a plan submitted by the manufacturer to, and approved by, the Executive Officer for compliance with the exhaust emission standard on a corporate average basis pursuant to Title 13, California Code of Regulations, (13 CCR) Section 2442(b). The FEL shall be the applicable emission standard for this engine family for determining compliance of any engine within this engine family pursuant to 13 CCR Sections 2444.1 (in-use compliance). The FEL and certification emission level in grams per kilowatt-hour (g/kW-hr) for this engine family are as follows. Engines in this engine family shall discharge no crankcase emissions into the ambient atmosphere in conformance with 13 CCR Section 2442(b).

	FAMILY EMISSION LIMIT (g/kW-hr)	CERTIFICATION LEVEL (g/kW-hr)
HC+NOx	3.7	3.3

Compliance with the emission standard on a corporate average basis shall be determined pursuant to 13 CCR Section 2442(b) based on the sales-weighted average of all engines produced for sale in California that are included in the approved corporate average compliance plan for the model-year.

BE IT FURTHER RESOLVED: That for the listed engines, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Sections 2443.1, 2443.2 and 2443.3 (emission control, consumer, and environmental labels), Section 2444.2 (on-board engine malfunction detection system), and Sections 2445.1 and 2445.2 (emission control system warranty).

Engines 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. Engines 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 18 day of January 2008.

Annette Hebert

Annette Hebert, Chief
Mobile Source Operations Division