California Environmental Protection Agency AIR RESOURCES BOARD	KOHLER COMPANY	EXECUTIVE ORDER U-U-005-0269 New Off-Road Small Spark-Ignition Engines at or Below 19 Kilowatts

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 engine and emission control systems produced by the manufacturer are certified for use in small off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (cc)	ENGINE CLASS	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas LPG=liquefied petroleum gas)
2008	8KHXS.7252NA	624, 674, 725	4-stroke, ≥ 225 cc	LPG, CNG

DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
500	EM	Generator Set and Other Industrial Equipment
ENGINE CODES/MODELS (rated power in kilowatt, kW)	See Attached Page	

ABBREVIATIONS: EM=engine modification TWC/OC=three-way/oxidizing catalyst WUTWC/WUOC=warm-up TWC/OC O2S=oxygen sensor HO2S=heated O2S EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR MFI=multi port fuel injection SFI=sequential MFI TBI=throttle body fuel injection DFI=direct fuel injection TC/SC=turbo/super charger CAC=charge air cooler 2(prefix)=parallel (2)(suffix)=in series ECM=engine control module

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx), carbon monoxide (CO), and particulate matter (PM) emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2403(b)), and certification emission levels for this engine family in grams per kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with Section 90.109 of the "California Exhaust Emission Standards and Test Procedures for 2005 and Later Small Off-Road Engines," adopted July 26, 2004.

*=not applicable	HC+NOx (g/kW-hr)	CO (g/kW-hr)	PM (g/kW-hr)
STANDARD	8.0	549	*
FAMILY EMISSION LEVEL	12.1	402	*
CERTIFICATION LEVEL	11.5	209	*

BE IT FURTHER RESOLVED: That the family emission level(s) (FELs), as applicable, is an emission limit declared by the manufacturer for use in the averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2403(e)(1) and 2407(a).

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 Section 2404 (emission control labels) and 13 CCR Sections 2405 and 2406 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Quarterly reports of engines produced in this engine family for sale in California shall be submitted to the Executive Officer no later than 45 days after the end of each calendar quarter.

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 10 day of December 2007.

Annette Hebert, Chief
Mobile Source Operations Division

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Model Year: 2008
Manufacturer: Kohler Co.
Engine Family: 8KHXS.7252NA

Issued: 10/25/2007
Revised: 10/25/2007
E.O. Number: U-U-5-269

Small Off-Road Engine Model Summary Form

Units for Table: kW

Worst Case?	47. Model Designation	48. Sales Code	49. Displ (cc)	50. Bore/ Stroke	51. Ignition Timing	52. Max Power	53. Rated Speed (RPM)	54. Rated Torque	55. Torque Speed (RPM)	56. Emiss Control Sys
	CH25 (LP)	50-State	725	83 x 67 mm	17° - 28°	14.2	3600	37.4 N-m	3000	EM
	CH25 (NG)	50-State	725	83 x 67 mm	21° - 37°	12.9	3600	33.9 N-m	3000	EM
	CH23 (LP)	50-State	674	80 x 67 mm	17° - 28°	13.9	3600	35.9 N-m	3600	EM
	CH23 (NG)	50-State	674	80 x 67 mm	21° - 37°	12.5	3600	33.2 N-m	3600	EM
	CH20 (LP)	50-State	624	77 x 67 mm	17° - 28°	12.3	3600	32.4 N-m	3600	EM
X	CH20 (NG)	50-State	624	77 x 67 mm	21° - 37°	10.9	3600	27.8 N-m	3600	EM
	CH20EP (LP)	50-State	624	77 x 67 mm	26°	10.7	3600	31.2 N-m	3260	EM
	CH20EP (NG)	50-State	624	77 x 67 mm	26°	10.7	3600	30.9 N-m	3280	EM
	CH740EP (LP)	50-State	725	83 x 67 mm	28°	16.4	3600	43.7 N-m	3600	EM
	CH740EP (NG)	50-State	725	83 x 67 mm	37°	14.8	3600	39.3 N-m	3600	EM