



Alan C. Lloyd, Ph.D.
Agency Secretary

Air Resources Board

9480 Telstar Avenue, Suite 4
El Monte, California 91731 www.arb.ca.gov



Arnold Schwarzenegger
Governor

December 9, 2005

Mr. Kevin Brown
Lubrizol Engine Control System
165 Pony Drive
Newmarket, Ontario L3Y 7K8
Canada

Dear Mr. Brown:

The Air Resources Board (ARB) has evaluated Lubrizol Engine Control System's TermiNOx™ using the Interim Verification Procedure for Emission Control Systems for Off-Road Large Spark-ignition Engines (LSI), Appendix B of the proposed Staff Report in May 2005. Based on the evaluation data provided, and pursuant to the terms and conditions specified below, the Executive Officer of the ARB hereby verifies that the TermiNOx™ emission control system reduces emissions of uncontrolled engines to 1.0 g/hp-hr of NOx + HC consistent with a Level 3a classification.

This system may be used in unregulated off-road LSI engines model years 1990 to 2001 and non-complying phase-in engines model years 2001 and newer.

As specified in the Interim Verification Procedure, the ARB assigns an Emission Control Group (ECG) name and requires it to be included on a label to be permanently affixed to both the emission control system and the engine on which the system is installed. The designated ECG name is **CA/2005/ECS/LL3a/NH1.0/OFF/SYS01**. This identification name along with other label information must be in the following format:

Name, Address, and Phone Number of Manufacturer

CA/2005/ECS/LL3a/NH1.0/OFF/SYS01

Product Serial Number

ZZ-ZZ- int (Month - Year manufactured and indication of interim verification
e.g., 06-02-int)

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Website: <http://www.arb.ca.gov>.

California Environmental Protection Agency

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The aforementioned interim verification is valid provided the engines meet the following criteria:

- The engine is an off-road engine with greater than 25 hp
- The engine is from 1.0 - 3.0 liters and uses LSI propane fuel
- The engine is four stroke and naturally aspirated
- The engine is a three or four cylinder engine with in-line cylinder configuration
- The engine must not have a pre-existing closed loop 3-way catalyst system
- The engine must have an open loop Impco, Nolff, Aisan or Nikki fuel system
- The engine should be properly tuned and maintained as specified by original manufacturer
- The engine must not have any signs of excessive oil consumption
- The engine has a transient speed duty cycle
- The TermiNOx™ emission control system must not be used with any engine modified from the originally manufactured system
- The TermiNOx™ emission control system must be installed consistent with specifications listed in the installation/owner's manual shown in the interim verification application

No changes are permitted to the systems described herein. Any changes to the systems, system components, applicable equipment, model year, etc. must be evaluated and approved in writing by the ARB.

Additionally, as stated in the Interim Verification Procedure, Lubrizol Engine Control Systems is responsible for honoring a warranty (Section 2787) and conducting in-use compliance testing (Section 2789).

Thank you for participating in the ARB's LSI Interim Verification program. Should you have any questions or comments, please contact Jack Kitowski, Branch Chief, at (916) 445-6102.

Sincerely,

/s/

Robert H. Cross, Chief
Mobile Source Control Division

cc: Jack Kitowski, Chief
On-Road Controls Branch