

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER D-420-12

Relating to Exemptions under  
Section 27156 of the Vehicle Code

Engine Control Systems Ltd.  
Purifilter Plus

Pursuant to the authority vested in the Air Resources Board by Section 27156 of the Vehicle Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That installation of the Purifilter Plus device, manufactured by Engine Control Systems Ltd. of 165 Pony Drive, Newmarket, Ontario, Canada L3Y 7V1, has been found not to reduce the effectiveness of the applicable engine emission control system, and therefore, the Purifilter Plus device is exempt from the prohibitions in Section 27156 of the Vehicle Code for installation on on-road heavy-duty vehicles equipped with 1988 through 2006 model-year 4-stroke diesel engines with turbocharging and charge air cooling.

This Executive Order excludes all engines originally equipped with an aftertreatment emission control system such as a catalytic converter or a diesel particulate filter. This Executive Order is only valid provided the engines meet the following operating condition: the engine exhaust temperature exceeds 280 degrees Celsius for at least 25 percent of the typical duty cycle.

The Purifilter Plus device exempted under this Executive Order can be installed on engines operated using California diesel (15 parts per million by weight sulfur content), PuriNOx water emulsion fuel based on California diesel, or biodiesel blends containing no more than 20 percent biodiesel by volume. The Purifilter Plus devices exempted under this Executive Order are identified in Attachment A.

This Executive Order is based on engineering evaluation and previous emission test data. The Purifilter Plus device is not expected to have any adverse impact on engine emissions when used on any of the engines listed above.

This Executive Order is valid provided that installation instructions for the Purifilter Plus device do not recommend tuning the engines to specifications different from those of the engine manufacturer.

Changes made to the design or operating conditions of the Purifilter Plus device, as exempted by the Air Resources Board, which adversely affect the performance of the engine's pollution control system, shall invalidate this Executive Order.

Marketing of the Purifilter Plus device using identification other than that shown in this Executive Order or for an application other than that listed in this Executive Order shall be prohibited unless prior approval is obtained from the Air Resources Board.

This Executive Order shall not apply to any Purifilter Plus device advertised, offered for sale, sold with, or installed on a motor vehicle or an engine prior to or concurrent with transfer to an ultimate purchaser.

This Executive Order does not constitute any opinion as to the effect the use of the Purifilter Plus device may have on any warranty either expressed or implied by the engine manufacturer.

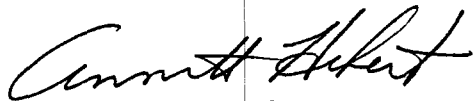
No claim of any kind, such as "Approved by the Air Resources Board," may be made with respect to the action taken herein in any advertising or other oral or written communication.

In addition to the foregoing, the Air Resources Board reserves the right in the future to review this Executive Order and the exemption provided herein to assure that the exempted add-on or modified part continues to meet the standards and procedures of California Code of Regulations, Title 13, Section 2222, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF ENGINE CONTROL SYSTEMS LTD.'S PURIFILTER PLUS DEVICE.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order. The Executive Order may be revoked only after a ten-day written notice of intention to revoke the Executive Order, in which period the holder of the Executive Order may request in writing a hearing to contest the proposed revocation. If a hearing is requested, it shall be held within ten days of receipt of the request, and the Executive Order may not be revoked until a determination is made after a hearing that grounds for revocation exist.

Executed at El Monte, California, this 13 day of September 2007.



Annette Hebert, Chief  
Mobile Source Operations Division

Attachment A

Purifilter Plus Part Number	Purifilter Plus Model
A19-XXXX	SCP10L & SCP10H SCP13L & SCP13H SCP17L & SCP17H SCP20L & SCP20H SCP23L & SCP23H SCP28L & SCP28H DSCP26L & DSCP26H DSCP34L & DSCP34H DSCP40L & DSCP40H DSCP46L & DSCP46H

Note: Purifilter Plus Part Number  
Pre-fix A19 designates the Purifilter Plus filter. XXXX designates a design and corresponding bill of materials.

Purifilter Plus Model  
SCPXXL/H: SC denotes the silicon carbide substrate; XX is the filter volume in liters; L denotes the low catalyst loading; H denotes the high catalyst loading.  
DSCP26L/H: D denotes dual monoliths.