

**State of California
AIR RESOURCES BOARD**

EXECUTIVE ORDER DE-04-005-03

Pursuant to the authority vested in the Air Resources Board (ARB) by Health and Safety Code, Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by Health and Safety Code section 39515 and 39616 and Executive Order G-02-003;

Relating to Exemptions under Section 27156 of the Vehicle Code, and Verification under Sections 2700 through 2710 of Title 13 of the California Code of Regulations

Donaldson Company, Inc.

DPM Diesel Particulate Filter Muffler System with 6300 Series Catalyst Formulation

ARB has reviewed Donaldson Company's request for verification of the DPM Diesel Particulate Filter (DPF) Muffler System with 6300 Series catalyst formulation. Based on an evaluation of the data provided, and pursuant to the terms and conditions specified below, the Executive Officer of ARB hereby finds that the DPM DPF Muffler System with 6300 Series catalyst formulation reduces emissions of diesel particulate matter (PM) consistent with a Level 3 device (greater than or equal to 85 percent reductions) (Title 13 California Code of Regulations (CCR) sections 2702 (f) and (g) and section 2708). Accordingly, the Executive Officer determines that the system merits verification and, subject to the terms and conditions specified below, classifies the DPM DPF muffler system with 6300 Series catalyst formulation as a Level 3 system for heavy-duty on-road vehicles using engines from the engine families listed in Attachment 1.

The aforementioned verification is subject to the following terms and conditions:

- The engine is originally manufactured from model year 1993 through 2006 having the engine family names listed in Attachment 1.
- The engine does not employ exhaust gas recirculation.
- The application must have a duty cycle with an average exhaust temperature profile greater than 225 degrees Celsius.
- The engine may or may not have a pre-existing original equipment manufacturer oxidation catalyst.
- The engine must not have a pre-existing diesel particulate filter.
- The engine must be certified for on-road applications.
- The engine must be in their original certified configuration.
- The engine must be four-stroke.
- The engine must be turbocharged.
- The engine can be mechanically or electronically injected.
- The engine must be well maintained and not consume lubricating oil at a rate greater than that specified by the engine manufacturer.
- Lube oil, or other oil, must not be mixed with the fuel.
- The product must not be operated with fuel additives, as defined in Title 13 CCR Section 2701, unless explicitly verified for use with the fuel additive(s).

- The product must not be used with any other systems or engine modifications without ARB and manufacturer approval.
- The other terms and conditions specified below.

IT IS ALSO ORDERED AND RESOLVED: That installation of the DPM DPF muffler system with 6300 Series catalyst formulation, manufactured by Donaldson Company, Inc. of Post Office Box 1299, Minneapolis, Minnesota 55440-1299, has been found not to reduce the effectiveness of the applicable vehicle pollution control system, and therefore, the DPM DPF muffler system with 6300 Series catalyst formulation is exempt from the prohibitions in Section 27156 of the Vehicle Code for installation on heavy-duty on-road vehicles using engines listed in Attachment 1.

This exemption is only valid provided the engines meet the aforementioned conditions.

The DPM DPF muffler system with 6300 Series catalyst formulation consists of a catalyzed passive diesel particulate filter and a backpressure monitor. The major components of the DPM DPF muffler system with 6300 Series catalyst formulation are identified in Attachment 2. Schematics of the approved product and engine labels are shown in Attachment 3.

This Executive Order is valid provided that installation instructions for DPM DPF muffler system with 6300 Series catalyst formulation do not recommend tuning the vehicle to specifications different from those of the vehicle manufacturer.

Changes made to the design or operating conditions of the DPM DPF muffler system with 6300 Series catalyst formulation, as exempted by ARB, which adversely affect the performance of the vehicle's pollution control system, shall invalidate this Executive Order.

No changes are permitted to the device. The ARB must be notified in writing of any changes to any part of the DPM DPF muffler system with 6300 Series catalyst formulation. Any changes to the device must be evaluated and approved by ARB. Failure to do so shall invalidate this Executive Order.

Marketing of the DPM DPF muffler system with 6300 Series catalyst formulation 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 ARB.

This Executive Order shall not apply to any DPM DPF muffler system with 6300 Series catalyst formulation advertised, offered for sale, sold with, or installed on a motor vehicle prior to or concurrent with transfer to an ultimate purchaser.

As specified in the Diesel Emission Control Strategy Verification Procedure (Title 13 CCR section 2706 (i)), the ARB assigns each Diesel Emission Control Strategy a family

name. The designated family name for the verification as outlined above is:
CA/DON/2004/PM3/N00/ON/DPF01.

Additionally, as stated in the Diesel Emission Control Strategy Verification Procedure, Donaldson Company, Incorporated is responsible for honoring their warranty (Section 2707) and conducting in-use compliance testing (Section 2709).

This Executive Order is valid provided that the diesel fuel used in conjunction with the device complies with Title 13, CCR, sections 2281 and 2282, and if biodiesel is used, the biodiesel blend shall be 20 percent or less subject to the following conditions:

- The biodiesel portion of the blend complies with the American Society for Testing and Materials specification D6751 applicable for 15 parts per million sulfur content;
- The diesel fuel portion of the blend complies with Title 13, CCR, sections 2281 and 2282; and
- The use of biodiesel applies to devices verified to reduce only diesel pm.

Other alternative diesel fuels such as, but not limited to, ethanol diesel blends and water emulsified diesel fuel are excluded from this Executive Order.

In addition to the foregoing, ARB reserves the right in the future to review this Executive Order and the exemption and verification provided herein to assure that the exempted and verified add-on or modified part continues to meet the standards and procedures of Title 13 CCR, Section 2222, et seq and Title 13 CCR, Sections 2700 through 2710.

Vehicles certified under this Executive Order shall conform to all applicable California emissions regulations.

This Executive Order does not release Donaldson Company Incorporated from complying with all other applicable regulations.

Violation of any of the above conditions shall be grounds for revocation of this Executive Order.

Executive Order DE-04-005-02 is hereby superseded and is of no further force and effect.

Executed at El Monte, California, this 25th day of September 2008.

/s/

Robert H. Cross, Chief
Mobile Source Control Division

Attachment 1: ARB Approved Engine Families for the DPM DPF

Attachment 2: Parts List for the DPM DPF

Attachment 3: Labels for the DPM DPF