CALIFORNIA
AIR RESOURCES BOARD

EXECUTIVE ORDER D-820U

Relating to Exemptions under
Section 38391 of the California Vehicle Code

Caterpillar, Inc.
Engine Idle Reduction System

Pursuant to the authority vested in the California Air Resources Board by Section 38391 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-14-012;

IT IS ORDERED AND RESOLVED: That installation of the Engine Idle Reduction System, manufactured by Caterpillar, Inc., Post Office Box 600, Mossville, Illinois 61552-0600 has been found not to reduce the effectiveness of the applicable vehicle pollution control system, and therefore, is exempt from the prohibitions of Section 38391 of the California Vehicle code for installation on the following off-road compression ignition engines that are certified to Tier 4F emission standards.

| Model Year | Engine Family | Rated Power Class | Horsepower Rating (hp) | Displacement (L) | Fuel Type | Useful Life (hr) |
|---|---|---|---|---|---|---|
| 2017 | HCPXL58.6HXF | > 560 kW | 2250 and 2500 | 58.6 | Diesel | 8000 |
| 2018 | JCPXL58.6HXF | | | | | |

The Engine Idle Reduction System limits the amount of time engines idle by sending a stop or start command, and is offered as a factory installation option as well as a field retrofit on in-use 3512E Tier 4F Well Service engines. It does not control or alter any of the normal engine operation other than shut-downs and start-ups.

Major components of the Engine Idle Reduction System are listed as follows:

| Part number | Description |
|---|---|
| 561-8696 | 3512E T4 EIRS Core Kit |
| 561-8695 | Elbow and Seals Kit |
| 561-8697 | T4 Diesel Kit |
| 561-8698 | Off Engine Prelube Kit |
| 561-8699 | Engine Mounted Prelube Kit – with 250hr pan |
| 561-8700 | Engine Mounted Prelube Kit – with 500hr pan |
| 561-8701 | Engine Mounted Prelube Kit – with 750hr pan |
| 561-8702 | Alternator Kit |
| 561-8703 | Battery Kit |

The Engine Idle Reduction System is offered for different engine arrangements shown below:

| Serial Prefix | Arrangement Number |
|---|---|
| SK3 | 3953361 |
| SK5 | 4153596 |
| SK7 | 3806172 |
| MLX | 3806172 |

This exemption is based on evaluation of the Engine Idle Reduction System under the "Procedures for Exemption of Add-On and Modified Parts for Off-road Categories" (Procedures), adopted July 14, 2000.

This Executive Order is valid provided that the installation instructions for the Engine Idle Reduction System will not recommend tuning the engine to specifications different from those of the Engine manufacturer.

Changes made to the design or operating conditions of the Engine Idle Reduction System, as exempt by the California Air Resources Board, which adversely affect the performance of the engine's emission control system, shall invalidate this Executive Order.

This Executive Order shall not apply to any Engine Idle Reduction System advertised, offered for sale, sold with, or installed on a new engine prior to or concurrent with transfer to an ultimate purchaser.

Marketing of the Engine Idle Reduction System 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 California Air Resources Board.

This Executive Order does not constitute any opinion as to the effect the use of the Engine Idle Reduction System may have on any warranty either expressed or implied by the equipment manufacturer.

This Executive Order is granted based on an engineering evaluation and field test data for similar off-road engines from 2015-2017, that were submitted by Caterpillar, Inc. on the Engine Idle Reduction System. In addition to the foregoing, the California 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 2474, et seq.

THIS EXECUTIVE ORDER DOES NOT CONSTITUTE A CERTIFICATION, ACCREDITATION, APPROVAL, OR ANY OTHER TYPE OF ENDORSEMENT BY THE CALIFORNIA AIR RESOURCES BOARD OF ANY CLAIMS OF THE APPLICANT CONCERNING ANTI-POLLUTION BENEFITS OR ANY ALLEGED BENEFITS OF ENGINE IDLE REDUCTION.

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

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 the hearing that grounds for revocation exist.

Executed at El Monte, California this 13TH day of May 2019.

Allen Lyons, Chief
Emissions Compliance, Automotive Regulations and Science Division