





Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety 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-19-095;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

| MODEL<br>YEAR        | ENGINE FAMILY   | DISPLACEMENT (liters)   | FUEL TYPE   | USEFUL LIFE<br>(hours) |  |  |  |  |  |
|----------------------|---|---|---|------------------------|--|--|--|--|--|
| 2023                 | PDTAL12.8RJD  | 12.8  | Diesel  | 8000                   |  |  |  |  |  |
| SPECIAL              | FEATURES & EMISSION O   | CONTROL SYSTEMS   | TYPICAL EQUIPMENT APPLICATION                                     |                        |  |  |  |  |  |
| Injection<br>Recircu | Air Cooler, Oxidation Ca<br>, Electronic Control Mo<br>, Ilation, Turbocharger, S<br>tion-Urea, Ammonia Ox<br>Periodic Trap Oxi | dule, Exhaust Gas<br>Selective Catalyst<br>kidation Catalyst, | Crane, Loader, Tractor, Dozer, Pump, Compressor,<br>Generator Set |                        |  |  |  |  |  |

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

| RATED          | EMISSION             |      |      | ı    | EXHAUST (g/kw-ł | OPACITY (%) |       |       |     |      |
|----------------|----------------------|------|------|------|-----------------|-------------|-------|-------|-----|------|
| POWER<br>CLASS | STANDARD<br>CATEGORY |      | NMHC | NOx  | NMHC+NOx        | CO          | PM    | ACCEL | LUG | PEAK |
| 130 ≤ kW ≤ 560 | Tier 4 Final         | STD  | 0.19 | 0.40 | N/A             | 3.5         | 0.02  | N/A   | N/A | N/A  |
|                |                      | CERT | 0.01 | 0.20 |                 | 0.1         | 0.001 |       |     |      |

**BE IT FURTHER RESOLVED:** That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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

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 on this 25th day of January 2023.

Robin U. Lang, Chief

Emissions Certification and Compliance Division

Tolin U. Lang

Attachment: Engine Models

EO #: U-R-016-0156 Family: PDTAL12.8RJD Attachment Last Revised: 12/27/2022

|       |              |      |        |              | Displacement - |            | Peak Power - | Peak Power - | Peak Power - | Peak Power - |             | Peak Torque - | Peak Torque - | Peak Torque - | Peak Torque - |     |     |         |                                     |  |
|-------|--------------|------|--------|--------------|----------------|------------|--------------|--------------|--------------|--------------|-------------|---------------|---------------|---------------|---------------|-----|-----|---------|-------------------------------------|--|
| Model | Code         | Trim | Config | Displacement | Units          | Peak Power | Units        | Speed (rpm)  | Fueling      | Fuel Units   | Peak Torque | Units         | Speed (rpm)   | Fuel          | Fuel Units    | OBD | GHG | Special | Notes                               |  |
| OM471 | OM471LA.E5-1 |      | L6     | 12.8         | Liters         | 390        | kilowatt     | 1600         | 166.3        | lb/hr        | 2600        | N-m           | 1300          | 148.6         | lb/hr         | N/A | N/A |         | ECM,TC,CAC,EGR,DPF,DDI,DOC,AMOX,SCR |  |
| OM471 | OM471LA.E5-2 |      | L6     | 12.8         | Liters         | 360        | kilowatt     | 1600         | 151.8        | lb/hr        | 2400        | N-m           | 1300          | 134.2         | lb/hr         | N/A | N/A |         | ECM,TC,CAC,EGR,DPF,DDI,DOC,AMOX,SCR |  |
| OM471 | OM471LA.E5-3 |      | L6     | 12.8         | Liters         | 340        | kilowatt     | 1600         | 142.8        | lb/hr        | 2300        | N-m           | 1300          | 127.4         | lb/hr         | N/A | N/A |         | ECM,TC,CAC,EGR,DPF,DDI,DOC,AMOX,SCR |  |
| OM471 | OM471LA.E5-4 |      | L6     | 12.8         | Liters         | 320        | kilowatt     | 1600         | 133.6        | lb/hr        | 2200        | N-m           | 1300          | 122           | lb/hr         | N/A | N/A |         | ECM,TC,CAC,EGR,DPF,DDI,DOC,AMOX,SCR |  |
|       |              |      |        |              |                |            |              |              |              |              |             |               |               |               |               |     |     |         |                                     |  |
|       |              |      |        |              |                |            |              |              |              |              |             |               |               |               |               |     |     |         |                                     |  |
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|       |              |      |        |              |                |            |              |              |              |              |             |               |               |               |               |     |     |         |                                     |  |
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|       |              |      | _      |              |                |            |              |              |              |              |             |               |               |               |               |     | _   |         |                                     |  |
|       | -            |      |        | -            |                |            | +            |              |              |              | +           | +             |               |               |               |     |     |         |                                     |  |
|       |              | -    |        | -            |                |            | +            |              |              |              |             | +             |               |               |               |     | -   |         |                                     |  |
|       |              | -    | -      |              |                | -          | -            |              | -            | -            | -           | -             | -             |               |               | _   | _   |         |                                     |  |
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|       | -            | -    | -      | -            |                | -          | -            | -            | -            | -            | -           | -             | -             |               |               | -   | -   |         |                                     |  |
|       |              |      |        |              |                |            |              |              |              |              |             |               |               |               |               |     |     |         |                                     |  |