YANMAR CO., LTD.

EXECUTIVE ORDER U-R-028-0271 New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the 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-02-003:

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 YEAR | ENGINE FAMILY | DISPLACEMENT (liters) | FUEL TYPE | USEFUL LIFE (hours) | | | | |
|---------------|-----------------------|---------------------------------------|-------------------------------|------------------------|--|--|--|--|
| 2006 | 6YDXM0.85P3N | 0.854 | Diesel 3000 | | | | | |
| | FEATURES & EMISSION (| · · · · · · · · · · · · · · · · · · · | TYPICAL EQUIPMENT APPLICATION | | | | | |
| | Indirect Diesel Inje | ction | Marine Engine | | | | | |

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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 | | | E | XHAUST (g/kW-l | | OPACITY (%) | | | |
|----------------|----------------------|------|-----|-----|----------------|-----|-------------|-------|-----|------|
| POWER CLASS | STANDARD CATEGORY | | HC | NOx | NMHC+NOx | CO | PM | ACCEL | LUG | PEAK |
| 8 ≤ kW < 19 | Tier 2 | STD | N/A | N/A | 7.5 | 6.6 | 0.80 | N/A | N/A | N/A |
| | | CERT | | | 4.3 | 0.9 | 0.23 | | | |

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 at El Monte, California on this ______ day of December 2005.

Allen Lygens, Chief

Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: Yanmar Co.,Ltd.

Engine category: Nonroad CI

EPA Engine Family. 6YDXM0.85P3N

Mfr Family Name: N/A

Process Code: New Submission

60#U-R-028-0271 ATTACKMENT, PloF 1

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|---|----------------|------------------------------|-----|--------------|-----------------------------|---------------|---|-----------------------------|---------------------------------------|-----------|-------|------------------|---|
| 8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930 | | | | | 1877 | | 10.5 | 3,785 - 35771 - 57771 | 100 pg | | | A Sign | |
| ort. | 74534 74534 | | | | | 14000 1800 | | | | | | a(i) | |
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| stroke@ torque | N/A | | | | | | | | | | | | |
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| mm/stroke@peak torque | | | | | | | | | | | | | all and a second |
| E | | | | 1005 | | 5.7 | | | | | | | |
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| 6.Torque @ RPM (SEA Gross) | | | | | 7-1-1-1 1-1-1-1 | | | | | | | | |
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| 9 5 | NA | | | 200 | 1775 1 NA W | | | | 7.708 5503 | | 100 p | | |
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| (lbs/hr) @ peak HP (for diesels only) | 10.2 | 3.52 3.52 3.52 3.52 | 75 | 2000 | 332 | | | | | 7.0 | | 1 | |
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| mm/stroke @ peak HP (for diesel only) | | 3.4 | | | | | | | | | | | |
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| 3.BHP@RPM (SAE Gross) | 21.7/3600 | | | | | 200 | | | | | 2.3 | 1 . | |
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| 2.Engine Model | | | | | | | | | | | | | |
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