

# CERTIFICATE OF ANALYSIS



**ENEOS**

Product Name **SUZUKI ECSTAR Marine FCW Semi Synthetic 10W40**

Lot Number **NL26H029**

Date of Manufacture **8/11/2026**

| TEST ITEM                  | METHOD           | SPECIFICATION |        | RESULTS | UNITS   |
|----------------------------|------------------|---------------|--------|---------|---------|
|                            |                  | MIN           | MAX    |         |         |
| Appearance                 | Visual           | B & C         | --     | B & C   | --      |
| Color (ASTM)               | ASTM D1500       | Report        | --     | L2.5    | --      |
| Density 15°C               | ASTM D4052       | Report        | --     | 0.8691  | g/cm3   |
| Kinematic Viscosity, 40°C  | ASTM D445        | Report        | --     | 98.20   | mm2/s   |
| Kinematic Viscosity, 100°C | ASTM D445        | 12.5          | 15.5   | 14.09   | mm2/s   |
| Viscosity Index            | ASTM D2270       | Report        | --     | 147     | --      |
| CCS Viscosity, -25°C       | ASTM D5293       | --            | 7,000  | 6,998   | mPa·s   |
| Pour Point                 | ASTM D5950       | --            | -20    | -42     | °C      |
| Foaming Tendency Seq. I    | ASTM D882 IP 146 | --            | 10     | 0       | ml      |
| Foaming Stability Seq. I   | ASTM D882 IP 146 | --            | 0      | 0       | ml      |
| Foaming Tendency Seq. II   | ASTM D882 IP 146 | --            | 50     | 0       | ml      |
| Foaming Stability Seq. II  | ASTM D882 IP 146 | --            | 0      | 0       | ml      |
| Foaming Tendency Seq. III  | ASTM D882 IP 146 | --            | 10     | 0       | ml      |
| Foaming Stability Seq. III | ASTM D882 IP 146 | --            | 0      | 0       | ml      |
| Elemental Analysis - B     | ASTM D4951       | Report        | --     | 0.0056  | mass%   |
| Elemental Analysis - Ca    | ASTM D4951       | Report        | --     | 0.177   | mass%   |
| Elemental Analysis - P     | ASTM D4951       | Report        | --     | 0.0896  | mass%   |
| Elemental Analysis - S     | ASTM D4951       | Report        | --     | 0.257   | mass%   |
| Elemental Analysis - Zn    | ASTM D4951       | Report        | --     | 0.101   | mass%   |
| Elemental Analysis - N     | ASTM D4629       | Report        | --     | 0.0678  | mass%   |
| *1 Flash Point (COC)       | ASTM D92         | 200.000       | --     | 226     | °C      |
| *1 TAN                     | ASTM D664        | Report        | --     | 2.5     | mgKOH/g |
| *1 TBN (HClO4)             | ASTM D2896       | Report        | --     | 6.57    | mgKOH/g |
| *2 MRV Viscosity, -30°C    | ASTM D4684 (A)   | --            | 60,000 | 28,840  | mPa · s |
| *2 MRV Yield Stress        | ASTM D4684 (A)   | --            | --     | y ≤ 35  | Pa      |
| *2 NOACK - 250°C, 1 Hr     | ASTM D5800       | Report        | --     | 10.8    | mass%   |
| *2 TBS Viscosity, 150°C    | ASTM D4683       | 3.5           | --     | 3.85    | mPa · s |

## Notes

\*1 This property is measured at 3 month intervals, and the most recent measured value is shown here.

\*2 This property is measured at 6 month intervals, and the most recent measured value is shown here.

**ENEOS USA Inc.**

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