

## Certificate of Analysis



Mobil Korea Lube Oil Inc.

Ulsan, Korea

Date (mm/dd/yyyy): 06/22/2023

Product: MOBIL 1 ESP 5W-30

|                 |              |                  |            |
|-----------------|--------------|------------------|------------|
| Batch Number    | D360248      | Type             | 1 Lt       |
| Order Key       | 70481612     | Manufacture Date | 06/15/2023 |
| Export# / P.O.# |              | Destination      |            |
| Fill #          |              | Reference #      |            |
| Product #       | 2015101010U2 | T/C or T/T       |            |

| Test Description                                | Method     | Test Result |
|---|------------|-------------|
| 색 (ASTM Color)                                  | ASTM D1500 | 3.5*        |
| Density @ 15 C, kg/l                            | ASTM D4052 | 0.8524*     |
| Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s | ASTM D7042 | 12.24*      |
| Calcium, mass%                                  | ASTM D4951 | 0.108*      |
| Phosphorus, mass%                               | ASTM D4951 | 0.077*      |
| 저온겉보기점도 (CCS Viscosity) -30 C, mPa.s            | ASTM D5293 | 6217*       |
| 유동점 (Pour Point), C                             | ASTM D7346 | -38*        |
| Boron, mass%                                    | ASTM D4951 | 0.019*      |
| Infrared Spectrum                               | MLP13      | MATCH*      |
| 냄새 (Odor)                                       | AMS 1695   | PASS*       |
| Magnesium, mass%                                | ASTM D4951 | 0.048*      |
| 외관 (Appearance)                                 | AMS 1738   | C & B*      |
| Foam, Sequence II, Tendency, no Option A, ml    | ASTM D892  | 0*          |
| Foam Seq II, Stability (No Option A), ml        | ASTM D892  | 0*          |

**\*Result reported by Lab External to ExxonMobil**

This material meets the ExxonMobil sales specification established for this product and has been produced in a facility complying with the requirements of the ISO 9001 certified Global Product Integrity Management System (GPIMS). Test results on this certificate represent the most recent inspections done on this product for the stated characteristics and may be based on tank certification, manufacturing data, periodic testing and / or most recent product restock.

QA Chemist

Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards, and method effectiveness.