

**Certificate of Analysis**



Mobil Korea Lube Oil Inc.

Ulsan, Korea

Date (mm/dd/yyyy): 09/26/2023

**Product: MOBIL SUPER ALL-IN-ONE PROTECTION V 0W-20**

<b>Batch Number</b>	D390579	<b>Type</b>	DRUM
<b>Order Key</b>	70492660	<b>Manufacture Date</b>	09/25/2023
<b>Export# / P.O.#</b>		<b>Destination</b>	
<b>Fill #</b>	D390616	<b>Reference #</b>	
<b>Product #</b>	20151010R0R1	<b>T/C or T/T</b>	

Test Description	Method	Test Result
Density @ 15 C, kg/l	ASTM D4052	0.8422
Kinematic Viscosity @ 100 C, mm <sup>2</sup> /s	ASTM D445	7.9
Calcium, mass%	ASTM D4951	0.146
Phosphorus, mass%	ASTM D4951	0.085
Zinc, mass%	ASTM D4951	0.098
유동점 (Pour Point), C	ASTM D7346	-45
저온겔보기점도 (CCS Viscosity) -35 C, mPa.s	ASTM D5293	5472
Infrared Spectrum	MLP13	MATCH
냄새 (Odor)	AMS 1695	PASS
Magnesium, mass%	ASTM D4951	0.046
외관 (Appearance)	AMS 1738	Green
Foam, Sequence II, Tendency, no Option A, ml	ASTM D892	10
Foam Seq II, Stability (No Option A), ml	ASTM D892	0
Zirconium, mg/Kg	AMS 1801	27

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.