

14-NOV-2023

TO:Idemitsu Lube Middle East &amp; Africa FZE

### CERTIFICATE OF ANALYSIS

Product Name	IFG3 5W-30 (SN QUALITY LEVEL) 4LX6		
Lot No.	39LT01619S	Judgment	
Date	27-SEP-2023		
Quantity			

Test Item	Test Methods	Condition	Unit	Frq	Specification(Min) (Max)	Test Result	Last Lot No. Last Date
Kinematic Viscosity 40°C	ASTM D445	40°C	mm <sup>2</sup> /s	EL	- -	58.440	
Kinematic Viscosity 100°C	ASTM D445	100°C	mm <sup>2</sup> /s	EL	9.500 10.620	10.080	
Viscosity Index	ASTM D2270	-	-	EL	- -	161	
CCS Viscosity -30°C	ASTM D5293	-30°C	mPa.s	EL	- 6,600	4,429	
Base Number (HCLO <sub>4</sub> )	ASTM D2896	-	mgKOH/g	EL	7.00 9.00	7.89	
Density 15°C	ASTM D4052	15°C	g/cm <sup>3</sup>	EL	- -	0.8503	
Flash Point (C.O.C)	ASTM D92	-	°C	EL	200 -	251	
Pour Point	ASTM D97	-	°C	EL	- -35.0	-48.0	
Foaming Seq.II 93.5°C	ASTM D892	93.5°C	-	EL	- 50-0	0-0	
Color (Appearance)	SIS K319	-	-	EL	- -	L. Brown	
Shape (RT)	SIS K319	-	-	EL	- -	Clear L	

Remarks
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Symbol of frequency : EL=Every lot, EM=Every month, 3M=Every 3 month, 6M=Every 6 month, EY=Every year, "-"=Standard none

\* : The Latest result.

The above are true and accurate.

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## CERTIFICATE OF ANALYSIS

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Date	27-SEP-2023		
Quantity			

Test Item	Test Methods	Condition	Unit	Frq	Specification(Min) (Max)	Test Result	Last Lot No. Last Date
Color (ASTM)	ASTM D1500	-	-	EL	- -	L3.0	
Water (Karl Fischer) (ppm)	ASTM D6304	-	ppm	EL	- 300	178	
Phosphorus (wt%) ZD4951	ASTM D4951	-	wt%	EL	0.0600 0.0800	0.0800	
Infra-Red Spectroscopy	INFRA-RED	-	-	EL	- -	Normal	

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