

14-NOV-2023

TO:Idemitsu Lube Middle East &amp; Africa FZE

## CERTIFICATE OF ANALYSIS

Product Name	IDEMITSU ATF 4LX6						
Lot No.	37LT01297B	Judgment					
Date	14-JUL-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	-	29.900	
Kinematic Viscosity 100°C	ASTM D445	100°C	mm <sup>2</sup> /s	EL	7.000 8.000	7.125	
Viscosity Index	ASTM D2270	-	-	EL	-	215	
BF Viscosity -40°C	ASTM D2983	-40°C	mPa.s	EL	-	9,150	
Acid Number (Potentiometric)	ASTM D664	-	mgKOH/g	EL	-	0.76	
Base Number (HCL)	ASTM D664	-	mgKOH/g	6M	-	1.99	
Base Number (HCLO4)	ASTM D2896	-	mgKOH/g	EL	2.50 4.50	3.38	
Density 15°C	ASTM D4052	15°C	g/cm <sup>3</sup>	EL	-	0.8458	
Aniline Point	ASTM D611	-	°C	EL	-	111.1	
Flash Point (C.O.C)	ASTM D92	-	°C	EL	180	220	
Pour Point	ASTM D97	-	°C	EL	-	-51.0	
Remarks							

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.

This is computer generated document, no signature is required.

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## CERTIFICATE OF ANALYSIS

Product Name	IDEMITSU ATF 4LX6		
Lot No.	37LT01297B	Judgment	
Date	14-JUL-2023		
Quantity			

Test Item	Test Methods	Condition	Unit	Frq	Specification(Min) (Max)	Test Result	Last Lot No. Last Date
Foaming Seq.I 24°C (Max 50-0)	ASTM D892	24°C	-	EL	- 50-0	0-0	
Foaming Seq.II 93.5°C(Max50-0)	ASTM D892	93.5°C	-	EL	- 50-0	0-0	
Foaming Seq.III 24°C (Max50-0)	ASTM D892	24°C	-	EL	- 50-0	0-0	
Color (Appearance)	SIS K319	-	-	EL	- -	Red	
Shape (RT)	SIS K319	-	-	EL	- -	Clear L	
Color (ASTM)	ASTM D1500	-	-	EL	- -	L6.0	
Copper Corrosion 100°C,3Hr(<1)	ASTM D130	100°C, 3Hr	-	EL	- 1	1a	
Sulfur (wt%) ZD5453	ASTM D5453	-	wt%	EL	- -	0.0600	
Phosphorus (wt%) ZD4951	ASTM D4951	-	wt%	EL	0.0100 0.0300	0.0200	
Calcium (wt%) ZD4951	ASTM D4951	-	wt%	EL	0.0600 0.0800	0.0800	
Nitrogen (wt%)	ASTM D4629	-	wt%	EL	0.0600 0.1000	0.0900	

Remarks
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