

QUALITY CONTROL LABORATORY

Certificate of analysis

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Certificate of Analysis number	LS-24-1123	Product Code	EXOL OPTIMA C2,
Sample Received Date:	8/29/2024		
Product Name	OPTIMA ACEAC2,WSS-M2C950A 0W-30	Batch Number	M-4625704
		Date of Test	8/29/2024
CHARACTERISTICS			
Test	Method	Units	Result
Appearance	Visual	-	Bright & Clear
Color	ASTM D1500	-	L1.5
Kinematic viscosity at 100 °C	ASTM D445	cSt	10.59
Kinematic viscosity at 40 °C	ASTM D445	cSt	57.94
Density at 15 °C	ASTM D4052	g/ml	0.8451
Viscosity index	ASTM D2270	-	174
Low Temperature Cranking	ASTM D5293	mPa.S	5197
Viscosity at -35C			
Noack	ASTM D5800	% mass	9
Flash Point (COC)	ASTM D92	°C	232
Pour Point	ASTM D97	°C	-45
Base Number	ASTM D2896	mg KOH/g	9
Sulfur	ASTM 5354	% mass	0
Nitrogen	ASTM D5762	% mass	0.13
Sulphated Ash	ASTM D874	% mass	0.8156
Calcium	ASTM D5185	% mass	0.189
Magnesium	ASTM D5185	% mass	0.001
Phosphorus	ASTM D5185	% mass	0.065
Zinc	ASTM D5185	% mass	0.082
Boron	ASTM D5185	% mass	0.014
Moly	ASTM D5185	% mass	0
HTHS	ASTM D4683	cP	3.613
SSI 30cycle	ASTM D6278	cSt	9.91
Foaming Tendency			
Sequence I Tend/Stab	ASTM D892	ml/ml	10/0
Sequence II Tend/Stab	ASTM D892	ml/ml	40/0
Sequence III Tend/Stab	ASTM D892	ml/ml	10/0

Issued By: Lab Chemist

Date: 8/29/2024