

QUALITY CONTROL LABORATORY

Certificate of analysis

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Certificate of Analysis number	LS-24-1122	Product Code	EXOL OPTIMA C2, C3
Sample Received Date:	8/29/2024		
Product Name	OPTIMA ACEAC2,C3,LSGM/DEXOS2 5W-30	Batch Number	M-4905704
		Date of Test	8/29/2024
CHARACTERISTICS			
Test	Method	Units	Result
Appearance	Visual	-	Bright & Clear
Color	ASTM D1500	-	2.0
Kinematic viscosity at 100 °C	ASTM D445	cSt	12.4
Kinematic viscosity at 40 °C	ASTM D445	cSt	75.28
Density at 15 °C	ASTM D4052	g/ml	0.8526
Viscosity index	ASTM D2270	-	163
Low Temperature Cranking	ASTM D5293	mPa.S	6048
Viscosity at -30C			
Noack	ASTM D5800	% mass	7.6
Flash Point (COC)	ASTM D92	°C	236
Pour Point	ASTM D97	°C	-36
Base Number	ASTM D2896	mg KOH/g	7.65
Sulfur	ASTM 5354	% mass	0.156
Nitrogen	ASTM D5762	% mass	0.13
Sulphated Ash	ASTM D874	% mass	0.8097
Calcium	ASTM D5185	% mass	0.198
Magnesium	ASTM D5185	% mass	0
Phosphorus	ASTM D5185	% mass	0.07
Zinc	ASTM D5185	% mass	0.09
Boron	ASTM D5185	% mass	0
Moly	ASTM D5185	% mass	0
HTHS	ASTM D4683	cP	4.31
SSI 30cycle	ASTM D6278	cSt	11.2
Foaming Tendency			
Sequence I Tend/Stab	ASTM D892	ml/ml	5/0
Sequence II Tend/Stab	ASTM D892	ml/ml	20/0
Sequence III Tend/Stab	ASTM D892	ml/ml	5/0

Issued By: Lab Chemist

Date: 8/29/2024