

# QUALITY CONTROL LABORATORY

## Certificate of analysis

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Certificate of Analysis number	LS-24-1130	Product Code	SHELL
Sample Received Date:	8/29/2024		
Product Name	Helix Ultra 5w-30 Dexos2	Batch Number	12333457
		Date of Test	8/29/2024
<b>CHARACTERISTICS</b>			
<b>Test</b>	<b>Method</b>	<b>Units</b>	<b>Result</b>
Appearance	Visual	-	Bright & Clear
Color	ASTM D1500	-	2.5
Kinematic viscosity at 100 °C	ASTM D445	cSt	11.68
Kinematic viscosity at 40 °C	ASTM D445	cSt	65.05
Density at 15 °C	ASTM D4052	g/ml	0.846
Viscosity index	ASTM D2270	-	177
Low Temperature Cranking	ASTM D5293	mPa.S	5492
Viscosity at -30C			
Noack	ASTM D5800	% mass	6.1
Flash Point (COC)	ASTM D92	°C	242
Pour Point	ASTM D97	°C	-36
Base Number	ASTM D2896	mg KOH/g	8.74
Sulfur	ASTM 5354	% mass	0.193
Nitrogen	ASTM D5762	% mass	0.1
Sulphated Ash	ASTM D874	% mass	0.7805
Calcium	ASTM D5185	% mass	0.183
Magnesium	ASTM D5185	% mass	0
Phosphorus	ASTM D5185	% mass	0.077
Zinc	ASTM D5185	% mass	0.091
Boron	ASTM D5185	% mass	0.0068
Moly	ASTM D5185	% mass	0
HTHS	ASTM D4683	cP	4.29
SSI 30cycle	ASTM D6278	cSt	11.03
<b>Foaming Tendency</b>			
Sequence I Tend/Stab	ASTM D892	ml/ml	5/0
Sequence II Tend/Stab	ASTM D892	ml/ml	30/0
Sequence III Tend/Stab	ASTM D892	ml/ml	10/0

**Issued By:** Lab Chemist

**Date:** 8/29/2024