

QUALITY CONTROL LABORATORY

Certificate of analysis

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Certificate of Analysisnumber	LS-24-1418	Product Source	SHELL
Sample Recieved Date:	14/10/2024		
Product Name	Shell HELIX ULTRA 5W-20 WSS-M2C948-B	Batch/Serial Number	600061116
		Date of Test	18/10/2024
CHARACTERISTICS			
Test	Method	Units	Result
Appearance	Visual	-	Bright & Clear
Color	ASTM D1500	-	L2.5
Kinematic viscosity at 100 °C	ASTM D445	cSt	8.277
Kinematic viscosity at 40 °C	ASTM D445	cSt	43.85
Density at 15 °C	ASTM D4052	g/ml	0.8487
Viscosity index	ASTM D2270	-	160
Low Temperature Cranking	ASTM D5293	mPa.S	4176
Viscosity at -30C			
Noack	ASTM D5800	% mass	6.2
Flash Point (COC)	ASTM D92	°C	244
Pour Point	ASTM D97	°C	-39
Base Number	ASTM D2896	mg KOH/g	7.56
Sulfur	ASTM 5354	% mass	0.209
Nitrogen	ASTM D5762	% mass	0.11
Sulphated Ash	ASTM D874	% mass	0.732
Calcium	ASTM D5185	% mass	0.18
Magnesium	ASTM D5185	% mass	0
Phosphorus	ASTM D5185	% mass	0.075
Zinc	ASTM D5185	% mass	0.08
Boron	ASTM D5185	% mass	0
Moly	ASTM D5185	% mass	0
HTHS	ASTM D4683	cP	4.3
SSI 30cycle	ASTM D6278	cSt	8.09
Foaming Tendency			
Sequence I Tend/Stab	ASTM D892	ml/ml	10/0
Sequence II Tend/Stab	ASTM D892	ml/ml	20/0
Sequence III Tend/Stab	ASTM D892	ml/ml	10/0

Issued By: Lab Chemist

Date: 18/10/2024