

QUALITY CONTROL LABORATORY

Certificate of analysis

page 1 of 1

Certificate of Analysisnumber	LS-24-1419		Product Source	SHELL
Sample Recieved Date:	14/10/2024			
Product Name	Shell HELIX ULTRA 5W-30 ECT C3 MB229.51/31	Batch/Serial Number	600071883	
		Date of Test	18/10/2024	
CHARACTERISTICS				
Test	Method	Units	Result	
Appearance	Visual	-	Bright & Clear	
Color	ASTM D1500	-	L3.0	
Kinematic viscosity at 100 °C	ASTM D445	cSt	11.86	
Kinematic viscosity at 40 °C	ASTM D445	cSt	65.56	
Density at 15 °C	ASTM D4052	g/ml	0.8465	
Viscosity index	ASTM D2270	-	179	
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	7.7	
Sulfur	ASTM 5354	% mass	0.171	
Nitrogen	ASTM D5762	% mass	0.11	
Sulphated Ash	ASTM D874	% mass	0.699	
Calcium	ASTM D5185	% mass	0.1676	
Magnesium	ASTM D5185	% mass	0	
Phosphorus	ASTM D5185	% mass	0.076	
Zinc	ASTM D5185	% mass	0.086	
Boron	ASTM D5185	% mass	0	
Moly	ASTM D5185	% mass	0	
HTHS	ASTM D4683	cP	5	
SSI 30cycle	ASTM D6278	cSt	11.54	
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