

QUALITY CONTROL LABORATORY

Certificate of analysis

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Certificate of Analysisnumber	LS-24-1411		Product Source	COMMA
Sample Recieved Date:	14/10/2024			
Product Name	COMMA X-Flow Type LL ACEA A3/B4, API SL/CF VW502/505,MB229.3 GM-LL-B-025 TYPE LL 5W-30	Batch/Serial Number	241627	
		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	12.09	
Kinematic viscosity at 40 °C	ASTM D445	cSt	73.78	
Density at 15 °C	ASTM D4052	g/ml	0.8538	
Viscosity index	ASTM D2270	-	161	
Low Temperature Cranking	ASTM D5293	mPa.S	6284	
Viscosity at -30C				
Noack	ASTM D5800	% mass	9.9	
Flash Point (COC)	ASTM D92	°C	236	
Pour Point	ASTM D97	°C	-36	
Base Number	ASTM D2896	mg KOH/g	10.8	
Sulfur	ASTM 5354	% mass	0.304	
Nitrogen	ASTM D5762	% mass	0.09	
Sulphated Ash	ASTM D874	% mass	1.31	
Calcium	ASTM D5185	% mass	0.331	
Magnesium	ASTM D5185	% mass	0	
Phosphorus	ASTM D5185	% mass	0.105	
Zinc	ASTM D5185	% mass	0.125	
Boron	ASTM D5185	% mass	0	
Moly	ASTM D5185	% mass	0.01	
HTHS	ASTM D4683	cP	3.76	
SSI 30cycle	ASTM D6278	cSt	11.08	
Foaming Tendency				
Sequence I Tend/Stab	ASTM D892	ml/ml	10/0	
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: 18/10/2024