

QUALITY CONTROL LABORATORY

Certificate of analysis

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Certificate of Analysis number		Product Code	PAMLUB
Sample Recieved	Date:	06/18/2024	
		Batch Number LS-24-1119	
Product Name	15W-40 ACEA E7,VDS3		Date of Test 06/18/2024
CHARACTERISTICS			
Test	Method	Units	Result
Appearance	Visual	-	Bright & Clear
Color	ASTM D1500	-	L2.5
Kinematic viscosity at 100 °C	ASTM D445	cSt	14.91
Kinematic viscosity at 40 °C	ASTM D445	cSt	109.8
Density at 15 °C	ASTM D4052	g/ml	0.8721
Viscosity index	ASTM D2270	-	141
Low Temperature Cranking Viscosity at -20 °C	ASTM D5293	mPa.S	5614
Noack	ASTM D5800	% mass	6.8
Flash Point (COC)	ASTM D92	°C	230
Pour Point	ASTM D97	°C	-36
Base Number	ASTM D2896	mg KOH/g	8.81
SSI 30 cycles	ASTM D6278	cSt	12.92
Nitrogen	ASTM D5762	% mass	0.090
Sulphated Ash	ASTM D874	% mass	1.02
Calcium	ASTM D5185	% mass	0.255
Phosphorus	ASTM D5185	% mass	0.0866
Zinc	ASTM D5185	% mass	0.1031
HTHS	ASTM D4683	cP	4.32
Foaming Tendency			
Sequence I Tend/Stab	ASTM D892	ml/ml	50/0
Sequence II Tend/Stab	ASTM D892	ml/ml	100/0
Sequence III Tend/Stab	ASTM D892	ml/ml	50/0