

QUALITY CONTROL LABORATORY

Certificate of analysis

page 1 of 1

Certificate of Analysis number		Product Code	PAMLUB
Sample Recieved	Date:	06/18/2024	
		Batch Number	LS-24-1117
Product Name	EURO 15W-40 ACEA E9 VDS4.5		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	14.66
Kinematic viscosity at 40 °C	ASTM D445	cSt	99.2
Density at 15 °C	ASTM D4052	g/ml	0.8639
Viscosity index	ASTM D2270	-	154
Low Temperature Cranking Viscosity at -20 °C	ASTM D5293	mPa.S	3198
Noack	ASTM D5800	% mass	7.9
Flash Point (COC)	ASTM D92	°C	244
Pour Point	ASTM D97	°C	-33
Base Number	ASTM D2896	mg KOH/g	8.48
SSI 30 cycles	ASTM D6278	cSt	14.12
Nitrogen	ASTM D5762	% mass	0.130
Sulphated Ash	ASTM D874	% mass	0.90
Calcium	ASTM D5185	% mass	0.213
Phosphorus	ASTM D5185	% mass	0.0899
Zinc	ASTM D5185	% mass	0.1071
HTHS	ASTM D4683	cP	4.30
Foaming Tendency			
Sequence I Tend/Stab	ASTM D892	ml/ml	30/0
Sequence II Tend/Stab	ASTM D892	ml/ml	80/0
Sequence III Tend/Stab	ASTM D892	ml/ml	0/0