

QUALITY CONTROL LABORATORY

Certificate of analysis

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Certificate of Analysisnumber	LS-24-1426		Product Source	LIQUI MOLY
Sample Recieved Date:	14/10/2024			
Product Name	TOP TEC4600 5W-30 ACEA C2/C3 API SP,BMW Longlife-4 MB229.31/51/52 OPEL OV 040 1547-G30/D-30 ,Fiat 9.55535-s3,WSS M2C917-A,DEXOS2	Batch/Serial Number	6037562308	
		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	11.7	
Kinematic viscosity at 40 °C	ASTM D445	cSt	68.15	
Density at 15 °C	ASTM D4052	g/ml	0.8488	
Viscosity index	ASTM D2270	-	168	
Low Temperature Cranking	ASTM D5293	mPa.S	5596	
Viscosity at -30C				
Noack	ASTM D5800	% mass	8.2	
Flash Point (COC)	ASTM D92	°C	244	
Pour Point	ASTM D97	°C	-39	
Base Number	ASTM D2896	mg KOH/g	7.73	
Sulfur	ASTM 5354	% mass	0.203	
Nitrogen	ASTM D5762	% mass	0.14	
Sulphated Ash	ASTM D874	% mass	0.661	
Calcium	ASTM D5185	% mass	0.082	
Magnesium	ASTM D5185	% mass	0.053	
Phosphorus	ASTM D5185	% mass	0.068	
Zinc	ASTM D5185	% mass	0.08	
Boron	ASTM D5185	% mass	0.028	
Moly	ASTM D5185	% mass	0.004	
HTHS	ASTM D4683	cP	6.4	
SSI 30cycle	ASTM D6278	cSt	11.01	
Foaming Tendency				
Sequence I Tend/Stab	ASTM D892	ml/ml	0/0	
Sequence II Tend/Stab	ASTM D892	ml/ml	40/0	
Sequence III Tend/Stab	ASTM D892	ml/ml	5/0	

Issued By: Lab Chemist

Date: 18/10/2024