



Shield Lubricants & Specialities Pvt. Ltd.

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CERTIFICATE OF ANALYSIS

PRODUCT NAME : SHIELD WARRIOR HLP 46 ISO VG 46	DATE : 03/09/2025
BATCH NO. : SL/25-09/1024	LAB.SR.NO.: 665

Sr. No.	Tests	Units	Method	Minimum	Maximum	Test Results
1	Appearance	None	Visual	Clear & Bright		Clear & Bright
2	Crackle Test	None	Visual	Negative		Negative
3	Density @ 29.5°C	Kg/ml	ASTM D1298	Report		0.8504
4	Colour	None	ASTM D1500		L2.5	L0.5
5	Kinematic, Viscosity @ 100°C	cSt	ASTM D445	Report		7.01
6	Kinematic, Viscosity @ 40°C	cSt	ASTM D445	41.4	50.60	41.97
7	Viscosity Index	None	ASTM D2270	90		114
8	Total Acid Number, TAN	mg KOH/g	ASTM D974		1	0.74
9	Flash Point, COC	°C	ASTM D92	180		220
10	Pour Point	°C	ASTM D97		-15	-24
11	Demulsibility @ 54°C±1°C	minutes	ASTM D1401		0 – 37-3 (30)	40-0-0(15)
12	Foam Test	ml	ASTM D892			
	Seq - I				150/0	10/0
	Seq - II				75/0	10/0
	Seq - III				150/0	10/0

Checked By: ANIL JARHAD

Approved By: Sandip Bhayaje

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