

Certificate of Analysis

PRODUCT : HI-PUMP 32-EX (200L DM)

CERT. NO. : 20220622-0008

D A T E : 2022/06/22

CUSTOMER : S-OIL

TANK No. : IBT-06

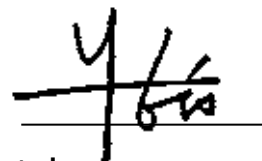
DATE SAMPLED : 2021/08/19

LOT No. : 213219

TEST ITEMS	UNIT	TEST METHOD	RESULTS
Color		ASTM D 1500	L0.5
Density, 15	g/cm ³	ASTM D 4052	0.8415
Viscosity, 40	cSt	ASTM D 445	32.57
Viscosity, 100	cSt	ASTM D 445	6.266
Viscosity Index		ASTM D 2270	146
C.C.S., -30	cP	ASTM D 5293	3570
Flash Point, COC		ASTM D 92	240
Pour Point		ASTM D 97	-42
T.A.N	mgKOH/g	ASTM D 664	0.21
Copper Strip Corrosion,100 ,3h		ASTM D 130	1b
Water Content	ppm	ASTM D 6304	91
Rust Prevention A		ASTM D 665	No rust
Demulsibility, 54	min	ASTM D 1401	10
Foaming Test Tendency/Stability, Sequence 1	ml	ASTM D 892	10/0
Foaming Test Tendency/Stability, Sequence 2	ml	ASTM D 892	20/0
Foaming Test Tendency/Stability, Sequence 3	ml	ASTM D 892	10/0

I CERTIFY THE ABOVE TEST RESULTS ARE TRUE AND CORRECT.

Chief Chemist
JB.Shin



S-OIL TotalEnergies Lubricants Co., Ltd.

Head Office : 16F, HSBC Building, 37, Chilpae-ro, Jung-gu, Seoul, Korea Tel.+82 2 6320 2000 Fax. +82 2 6320 2100
Plant : 436, Dangwol-ro, Onsan-eup, Ulju-gun, Ulsan, Korea Tel.+82 52 240 3133 Fax. +82 52 240 3134