CERTIFICATE OF ANALYSIS

ENEOS

Product Name SUZUKI ECSTAR Marine FCW Semi Synthetic 10W40
Lot Number NL26L011
Date of Manufacture 11/4/2026

	TEST ITEM	METHOD	SPECIFICATION MIN	SPECIFICATION MAX	RESULTS	UNITS
	Appearance	Visual	B & C	--	B & C	--
	Color (ASTM)	ASTM D1500	Report	--	L2.5	--
	Density 15°C	ASTM D4052	Report	--	0.8686	g/cm3
	Kinematic Viscosity, 40°C	ASTM D445	Report	--	90.07	mm2/s
	Kinematic Viscosity, 100°C	ASTM D445	12.5	15.5	13.15	mm2/s
	Viscosity Index	ASTM D2270	Report	--	146	--
	CCS Viscosity, -25°C	ASTM D5293	--	7,000	6,663	mPa·s
	Pour Point	ASTM D5950	--	-20	-42	°C
	Foaming Tendency Seq. I	ASTM D892 IP 146	--	10	0	ml
	Foaming Stability Seq. I	ASTM D892 IP 146	--	0	0	ml
	Foaming Tendency Seq. II	ASTM D892 IP 146	--	50	10	ml
	Foaming Stability Seq. II	ASTM D892 IP 146	--	0	0	ml
	Foaming Tendency Seq. III	ASTM D892 IP 146	--	10	0	ml
	Foaming Stability Seq. III	ASTM D892 IP 146	--	0	0	ml
	Elemental Analysis - B	ASTM D4951	Report	--	0.00700	mass%
	Elemental Analysis - Ca	ASTM D4951	Report	--	0.204	mass%
	Elemental Analysis - P	ASTM D4951	Report	--	0.103	mass%
	Elemental Analysis - S	ASTM D4951	Report	--	0.326	mass%
	Elemental Analysis - Zn	ASTM D4951	Report	--	0.116	mass%
	Elemental Analysis - N	ASTM D4629	Report	--	0.070	mass%
*1	Flash Point (COC)	ASTM D92	200	--	224	°C
*1	TAN	ASTM D664	Report	--	2.5	mgKOH/g
*1	TBN (HClO4)	ASTM D2896	Report	--	6.1	mgKOH/g
*2	MRV Viscosity, -30°C	ASTM D4684 (A)	--	60,000	27,859	mPa・s
*2	MRV Yield Stress	ASTM D4684 (A)	--	--	y ≤ 35	Pa
*2	NOACK - 250°C, 1 Hr	ASTM D5800	Report	--	11.5	mass%
*2	TBS Viscosity, 150°C	ASTM D4683	3.5	--	3.82	mPa・s

Notes
*1 This property is measured at 3 month intervals, and the most recent measured value is shown here.
*2 This property is measured at 6 month intervals, and the most recent measured value is shown here.

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Joy Rogers

Joy Rogers, General Manager Quality Control

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