

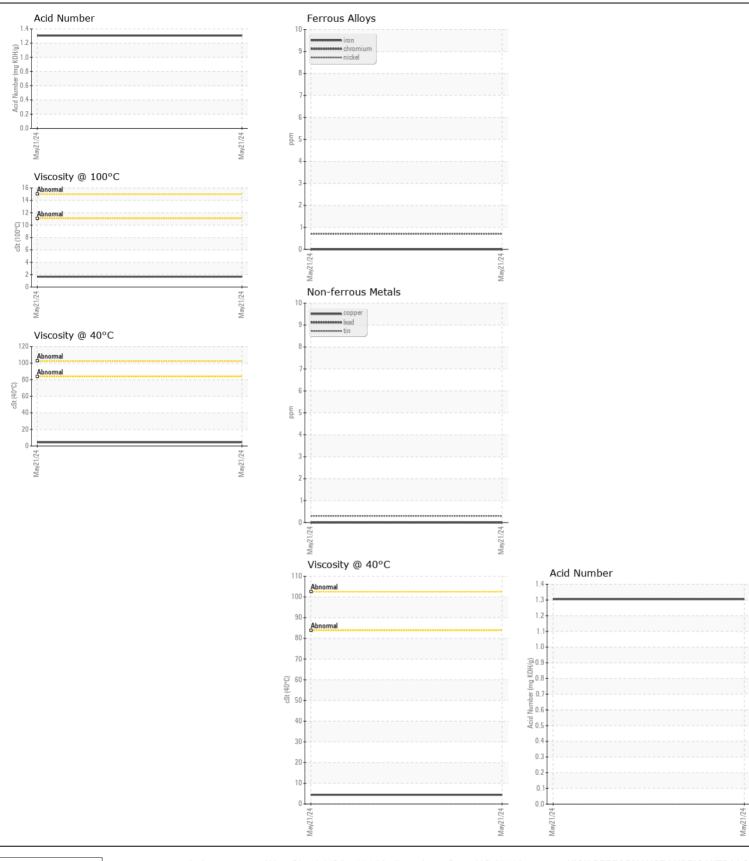
WEAR CONTAMINATION **FLUID CONDITION** NORMAL NORMAL **NORMAL**

Machine Id

24E2004 HO-112

New (Unused) Oil

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
	Sample Number	00	Client Info		HPL0004932		
This is a baseline read-out on the submitted sample.	Sample Date		Client Info		21 May 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m		0		
	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		0		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1		
	Potassium	ppm	ASTM D5185m	>20	2		
	Water	ррпп	WC Method	720	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	TYOTHYL	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		2		
	Calcium	ppm	ASTM D5185m		63		
	Phosphorus	ppm	ASTM D5185m		404		
	Zinc	ppm	ASTM D5185m		3		
	Sulfur	ppm	ASTM D5185m		250		
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.305		
	Visc @ 40°C	cSt	ASTM D445		4.41		
	Visc @ 100°C	cSt	ASTM D445		1.66		







Certificate L2367

Laboratory

Sample No.

Lab Number : 06192649 Unique Number : 11049401

: HPL0004932

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024

Tested : 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Jonathan Hester Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

HIGH PERFORMANCE LUBRICANTS LLC 500 S SPRUCE ST

MANTENO, IL US 60950 Contact: DAVID WARD

sampledata@hplubricants.com T: (815)468-3535

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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