

WEAR CONTAMINATION FLUID CONDITION

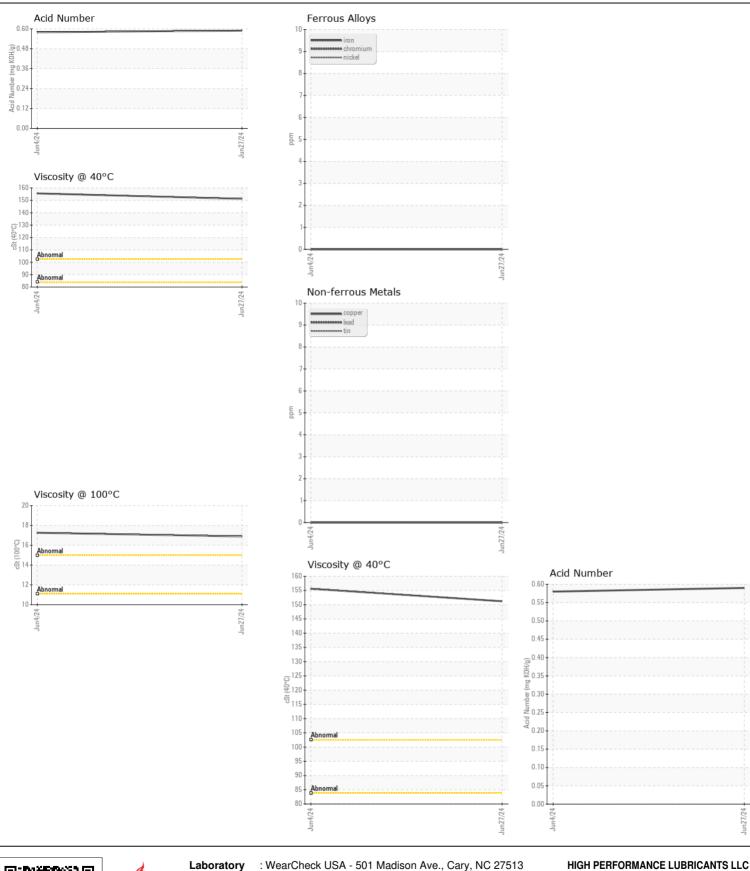
NORMAL NORMAL NORMAL

Machine Id

24F0401 STERLING-8330

Component
New (Unused) Oil
Fluid

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
This is a baseline read-out on the submitted sample.	Sample Number		Client Info		HPL0005281	HPL0004726	
	Sample Date		Client Info		27 Jun 2024	04 Jun 2024	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	NORMAL	
TAD			AOTH DE LOS				
VEAR	Iron	ppm	ASTM D5185m		0	0	
	Chromium	ppm	ASTM D5185m		0	0	
	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		0	<1	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		0	0	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	NONE	0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m		0	2	
	Potassium	ppm	ASTM D5185m	>20	0	2	
	Water		WC Method		NEG	NEG	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual		NEG	NEG	
LUID CONDITION	O "		AOTH DE LOS				
	Sodium	ppm	ASTM D5185m		<1	0	
	Boron	ppm	ASTM D5185m		0	0	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	0	
	Magnesium	ppm	ASTM D5185m		0	308	
	Calcium	ppm	ASTM D5185m		0	189	
	Phosphorus	ppm	ASTM D5185m		196	93	
	Zinc	ppm	ASTM D5185m		0	0	
	Sulfur	ppm	ASTM D5185m		24812	20187	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.59	0.58	
	Visc @ 40°C	cSt	ASTM D445		151.2	155.6	
	Visc @ 100°C	cSt	ASTM D445		16.89	17.26	







Certificate L2367

Laboratory Sample No.

: HPL0005281 Lab Number : 06225703

Unique Number : 11103900

Received : 01 Jul 2024 **Tested** Diagnosed

: 03 Jul 2024 : 03 Jul 2024 - Jonathan Hester Test Package : MOB 2 (Additional Tests: FT-IR, KV100, PrtCount, VI)

500 S SPRUCE ST MANTENO, IL

US 60950 Contact: DAVID WARD sampledata@hplubricants.com

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)

F: x:

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