

WEAR CONTAMINATION FLUID CONDITION

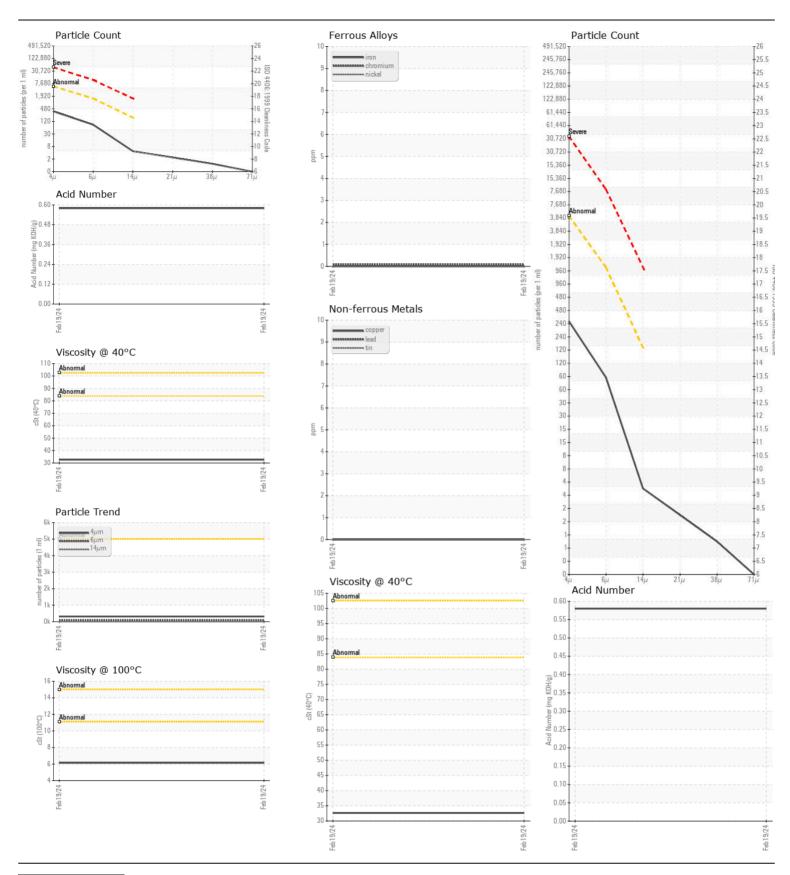
NORMAL NORMAL

Machine Id

24B1511 HL-015

Component New (Unused) Oil

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
This is a baseline read-out on the submitted sample.	Sample Number		Client Info		HPL0000898		
	Sample Date		Client Info		19 Feb 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		<1		
	Nickel	ppm	ASTM D5185m		0		
	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		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	nnm	ASTM D5185m		· · · · · · · · · · · · · · · · · · ·		
		ppm		- 20	3 0		
	Potassium Water	ppm	ASTM D5185m	>20	-		
	Particles >4µm		WC Method ASTM D7647	· 5000	NEG		
					317 73		
	Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647		4		
	Particles >14μm		ASTM D7647 ASTM D7647		2		
	Particles >38µm		ASTM D7647		1		
	Particles >30µm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)		15/13/9		
	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	INOTTIVIL	NEG		
	Lindollica Water						
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		66		
	Phosphorus	ppm	ASTM D5185m		359		
	Zinc	ppm	ASTM D5185m		438		
	Sulfur	ppm	ASTM D5185m		19074		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.58		
	Visc @ 40°C	cSt	ASTM D445		32.64		
	Visc @ 100°C	cSt	ASTM D445		6.15		
	Viscosity Index (VI)	Coolo	A STM DOOZO		139		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06103428

: HPL0000898 Unique Number: 10901658

Diagnosed Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI)

Received : 28 Feb 2024 **Tested** : 04 Mar 2024 : 04 Mar 2024 - Jonathan Hester

HIGH PERFORMANCE LUBRICANTS LLC 500 S SPRUCE ST MANTENO, IL US 60950 Contact: DAVID WARD

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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