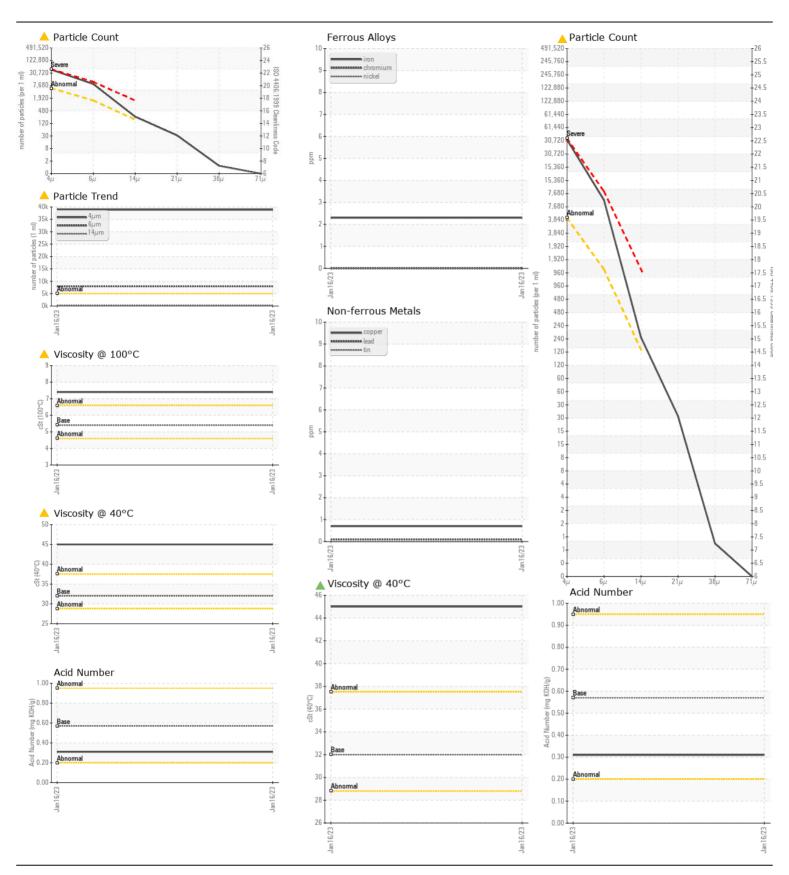
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL ATTENTION

HIAB 24401589

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ILCOMMENDATION	Sample Number	COIVI	Client Info	LITHUAUIT	WC0674645		
No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		16 Jan 2023		
	Machine Age	mls	Client Info		7083		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed	11113	Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status		Oliciti IIIIo		ABNORMAL		
<u></u>							
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	2		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>10	0		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		<1		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	<1		
There is a high amount of particulates present in the oil.	Potassium	ppm	ASTM D5185m	>20	0		
	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>5000	4 38867		
	Particles >6µm		ASTM D7647	>1300	7972		
	Particles >14μm		ASTM D7647	>160	220		
	Particles >21μm		ASTM D7647	>40	28		
	Particles >38µm		ASTM D7647	>10	1		
	Particles >71μm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^ 22/20/15</u>		
	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	scalar	*Visual	>0.1	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		0		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	5	<1		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		4		
	Calcium	ppm	ASTM D5185m	200	157		
	Phosphorus	ppm	ASTM D5185m		289		
	Zinc	ppm	ASTM D5185m	370	353		
	Sulfur	ppm	ASTM D5185m		3722		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.31		
	Visc @ 40°C	cSt	ASTM D445		45.0		
	Visc @ 100°C	cSt	ASTM D445	5.4	7.4		
	Viscosity Index (VI)	Scale	ASTM D2270	102	128		





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0674645 : 05771259

Recieved Diagnosed : 10345876 Diagnostician : Doug Bogart

: 17 Feb 2023

: 20 Feb 2023

Test Package : MOB 2 (Additional Tests: KV100, VI) 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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