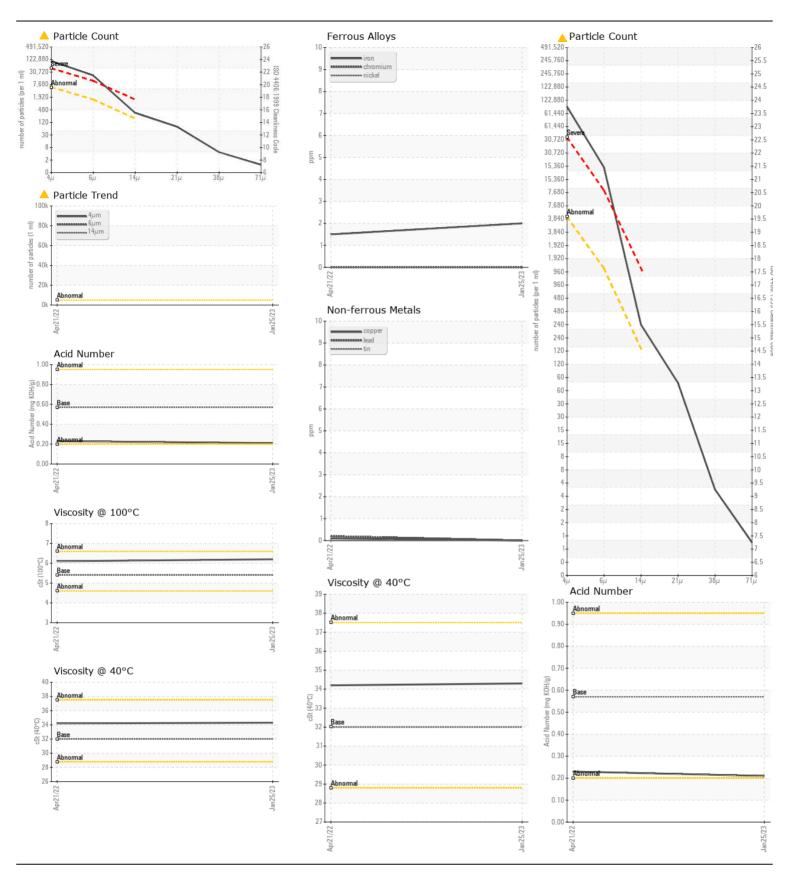
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL ABNORMAL NORMAL

Machine Id **08800164**

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
ILOOMINILIADATION	Sample Number	COM	Client Info	LITTIOTALIT	WC0735061	WC0622299	
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.	Sample Date		Client Info		25 Jan 2023		
	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		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>20	2	2	
	Chromium	ppm	ASTM D5185m	>10	0	0	
	Nickel	ppm	ASTM D5185m	>10	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	0	<1	
	Lead	ppm	ASTM D5185m	>10	0	<1	
	Copper	ppm	ASTM D5185m	>75	0	<1	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	LIGHT	▲ MODER	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m		<1	<1	
There is a high amount of particulates present in the oil.	Potassium	ppm	ASTM D5185m	>20	1	2	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000	89630		
	Particles >6µm		ASTM D7647	>1300	18262		
	Particles >14µm		ASTM D7647	>160	298		
	Particles >21µm		ASTM D7647		4 65		
	Particles >38µm		ASTM D7647	>10	4		
	Particles >71µm		ASTM D7647	>3	1		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>4</u> 24/21/15		
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	VLITE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	_	0	0	
The AN level is acceptable for this fluid. The condition of the oil is	Boron	ppm	ASTM D5185m		0	1	
suitable for further service.	Barium	ppm	ASTM D5185m		1	0	
	Molybdenum	ppm	ASTM D5185m	5	<1	<1	
	Manganese	ppm	ASTM D5185m	0.5	0	0	
	Magnesium	ppm	ASTM D5185m		3	3	
	Calcium	ppm	ASTM D5185m	200	128	129	
	Phosphorus	ppm	ASTM D5185m		357	358	
	Zinc	ppm		370	464	480	
	Sulfur	ppm			2964	2381	
	Acid Number (AN)	0 0	ASTM D8045	0.57	0.21	0.23	
	Visc @ 40°C	cSt	ASTM D445		34.3	34.2	
	Visc @ 100°C	cSt	ASTM D445		6.2	6.1	
	Viscosity Index (VI)	Scale	ASTM D2270	102	130	126	





Certificate L2367

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

: WC0735061 : 05750828 : 10310432

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 26 Jan 2023

Diagnosed : 27 Jan 2023 Diagnostician : Don Baldridge

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.

HIAB USA - HAGERSTOWN 148 WESTERN MARYLAND PKWY HAGERSTOWN, MD

US 21740 Contact: CHUCK WISHARD

CHUCK.WISHARD@HIAB.COM T: (240)625-0045

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)