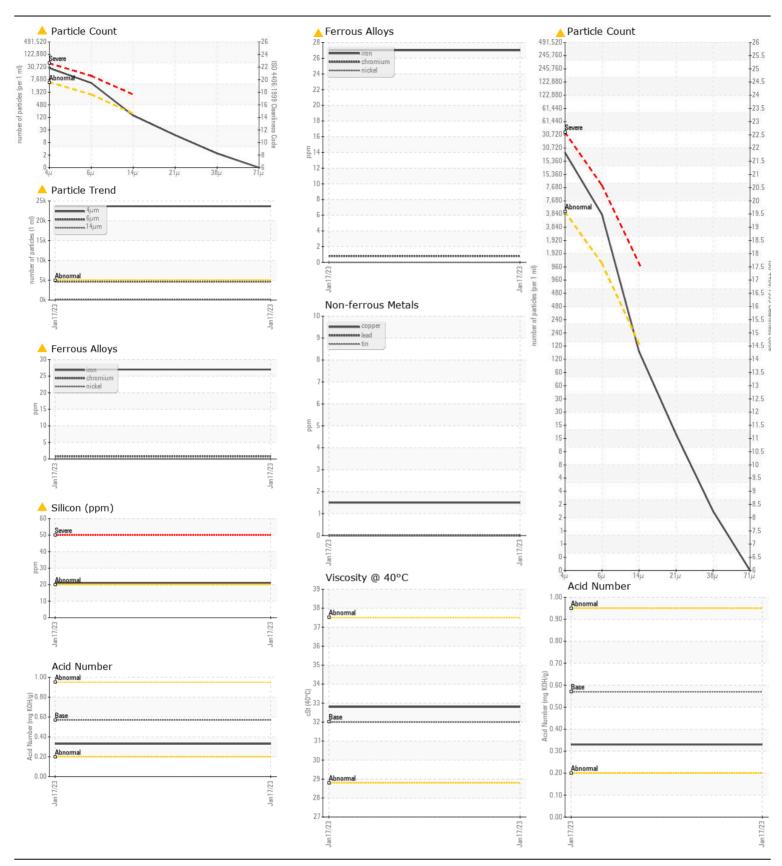
**WEAR** CONTAMINATION **FLUID CONDITION**  **ABNORMAL ABNORMAL NORMAL** 

Machine Id

## **B52 - BIST SUPPLY**

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0778216		
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.	Sample Date		Client Info		17 Jan 2023		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
<b>VEAR</b>	Iron	ppm	ASTM D5185m		<u> </u>		
The included in charges.	Chromium	ppm	ASTM D5185m	>10	<1		
The iron level is abnormal.	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	>10	0		
	Copper	ppm	ASTM D5185m	>75	2		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION  There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Silicon	ppm	ASTM D5185m		<u> </u>		
	Potassium	ppm	ASTM D5185m	>20	1		
	Water		WC Method	>0.1	NEG		
	Particles >4µm		ASTM D7647	>5000	<u> </u>		
	Particles >6µm		ASTM D7647	>1300	<b>4660</b>		
	Particles >14μm		ASTM D7647	>160	130		
	Particles >21µm		ASTM D7647	>40	15		
	Particles >38µm		ASTM D7647	>10	2		
	Particles >71µm		ASTM D7647	>3	0		
	Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>22/19/14</u>		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	VLITE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	5	<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m	25	1		
	Calcium	ppm	ASTM D5185m	200	46		
	Phosphorus	ppm	ASTM D5185m	300	340		
	Zinc	ppm	ASTM D5185m	370	401		
	Sulfur	ppm	ASTM D5185m	2500	3888		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.33		
	Visc @ 40°C	cSt	ASTM D445	32	32.8		
	Visc @ 100°C	cSt	ASTM D445	5.4	6.4		
		0 1	ASTM D2270	100	150		





Certificate L2367

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

: 05754896

: WC0778216 : 10319503

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 31 Jan 2023 Diagnosed : 02 Feb 2023

Diagnostician : Jonathan Hester 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.

12233 WILLIAMS RD PERRYSBURG, OH

**HIAB AMERICAS** 

US 43551

Contact: TECH SUPPORT support@hiabtechline.zendesk.com

T: F: (419)482-6911

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

Contact/Location: TECH SUPPORT - CARPEROH