**WEAR** CONTAMINATION **FLUID CONDITION** 

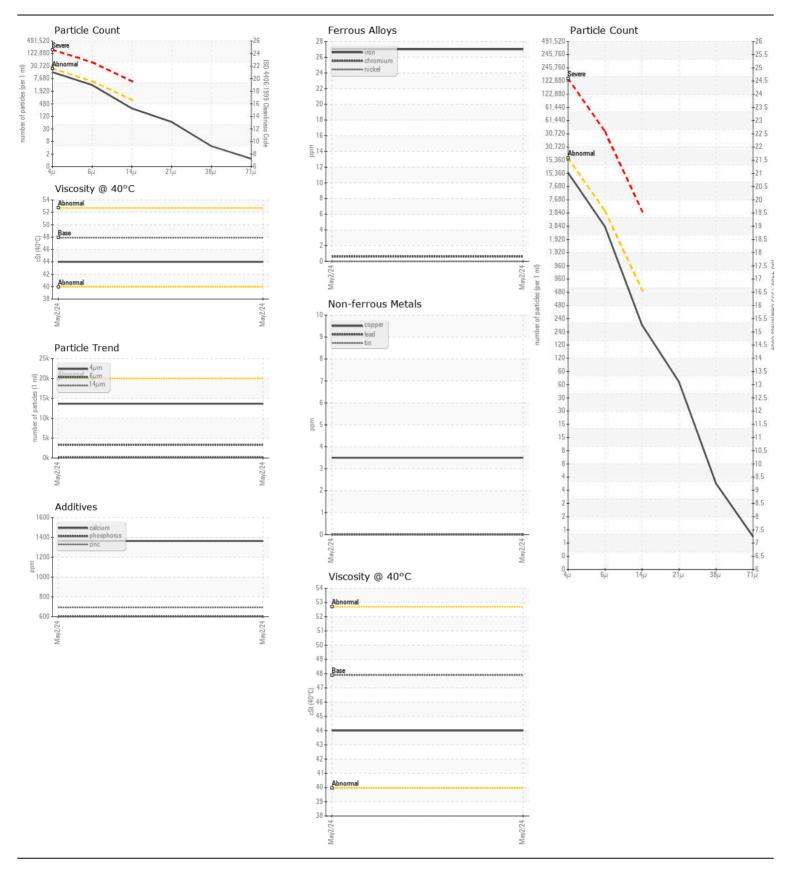
**NORMAL NORMAL NORMAL** 



## Machine Id LIEBHERR LH22 157673-1525

Hydraulic System

					_ ( GA		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0288059		
Confirm the source of the lubricant being utilized for top-up/fill.  Resample at the next service interval to monitor.	Sample Date		Client Info		02 May 2024		
	Machine Age	hrs	Client Info		515		
	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 D5185(m)	>50	27		
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	<1		
	Nickel	ppm	ASTM D5185(m)	>2	0		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>2	<1		
	Lead	ppm	ASTM D5185(m)	>4	0		
	Copper	ppm	ASTM D5185(m)	>10	4		
	Tin	ppm	ASTM D5185(m)	>2	0		
	Vanadium	ppm	ASTM D5185(m)		0		
	White Metal	scalar	Visual*	NONE	NONE		
	Yellow Metal	scalar	Visual*	NONE	NONE		
CONTAMINATION	Silicon		ASTM D5185(m)	47	•		
		ppm	. ,	>17	3		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Potassium	ppm	ASTM D5185(m)		<1 NEO		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		13633		
	Particles >6µm		ASTM D7647		3304		
	Particles >14µm		ASTM D7647		253		
	Particles >21µm		ASTM D7647		57		
	Particles >38μm		ASTM D7647		4		
	Particles >71μm		ASTM D7647		1		
	Oil Cleanliness		( /		21/19/15		
	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		
	Emulsified Water	scalar	visuai	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		1		
LOID GONDITION	Boron	ppm	ASTM D5185(m)	0	- <1		
Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185(m)		0		
	Molybdenum	ppm	ASTM D5185(m)		0		
	Manganese	ppm	ASTM D5185(m)		<1		
	Magnesium		ASTM D5185(m)		7		
	Calcium	ppm	ASTM D5185(m)		1364		
	Phosphorus	ppm	. ,	100 670			
		ppm	ASTM D5185(m)		603		
	Zinc	ppm	ASTM D5185(m)	850	693		
	Sulfur	ppm	ASTM D5185(m)	1600	4052		
	Visc @ 40°C	cSt	ASTM D7279(m)	47.9	44.0	/	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0288059 Lab Number : 02634640

Unique Number : 5775793

**Tested** Diagnosed Test Package : MOB 1 ( Additional Tests: PrtCount )

Received

: 10 May 2024

: 13 May 2024

: 13 May 2024 - Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

**ECOWASTE INDUSTRIES LTD.** 

15111 WILLIAMS ROAD RICHMOND, BC **CA V6W 1G9** 

Contact: Service Manager

T: (604)277-1410 F: