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

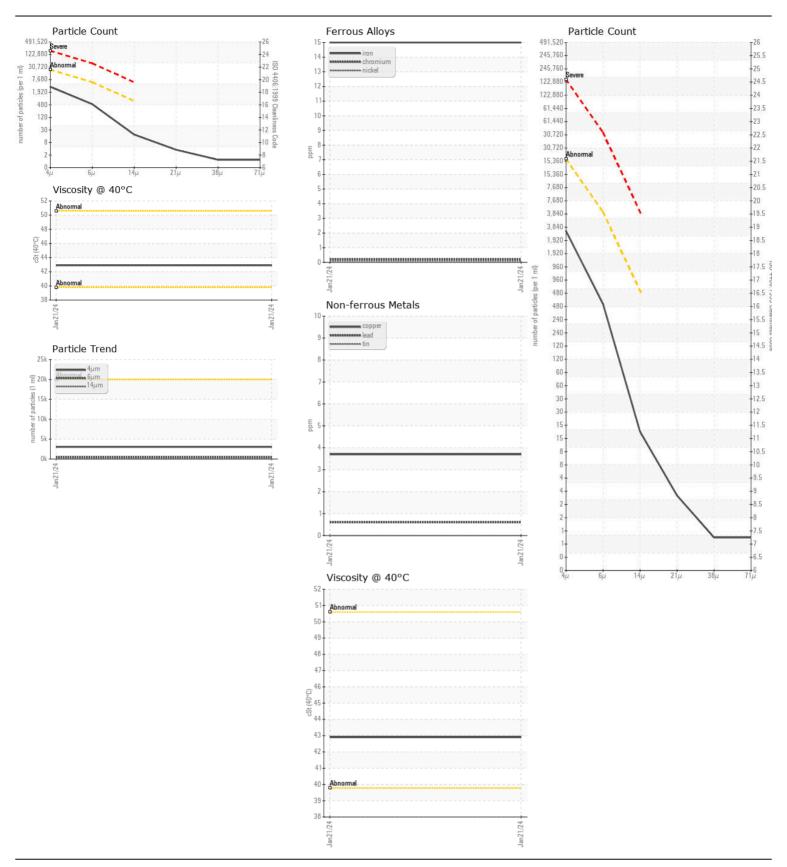
**NORMAL NORMAL NORMAL** 



## **LIEBHERR LH30M 140292-1253**

Component Hydraulic System

{not provided} ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		LH0278879		
	Sample Date		Client Info		21 Jan 2024		
	Machine Age	hrs	Client Info		1531		
	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	15		
	Chromium	ppm	ASTM D5185(m)		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185(m)		<1		
	Titanium	ppm	ASTM D5185(m)		0		
	Silver	ppm	ASTM D5185(m)		0		
	Aluminum	ppm	ASTM D5185(m)	>2	<1		
	Lead	ppm	ASTM D5185(m)		<1		
	Copper	ppm	ASTM D5185(m)		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	ppm	ASTM D5185(m)	>17	2		
	Potassium	ppm	ASTM D5185(m)		- <1		
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.	Water	pp	WC Method		NEG		
	Particles >4µm		ASTM D7647		3031		
	Particles >6µm		ASTM D7647		452		
	Particles >14µm		ASTM D7647		16		
	Particles >21µm		ASTM D7647		3		
	Particles >38µm		ASTM D7647		1		
	Particles >71μm		ASTM D7647	>10	1		
	Oil Cleanliness		ISO 4406 (c)		19/16/11		
	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		
	<b>Emulsified Water</b>	scalar	Visual*	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1		
	Boron	ppm	ASTM D5185(m)		0		
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)		0		
	Magnesium	ppm	ASTM D5185(m)		3		
	Calcium	ppm	ASTM D5185(m)		893		
	Phosphorus	ppm	ASTM D5185(m)		596		
	Zinc	ppm	ASTM D5185(m)		690		
	Sulfur	ppm	ASTM D5185(m)		2758		
	<b>-</b>	PP.11	ASTM D7279(m)		42.9		





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: LH0278879

: 5711395

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02610309

Recieved Diagnosed

: 22 Jan 2024 : 23 Jan 2024

Diagnostician : Wes Davis

Test Package : MOB 1 ( Additional Tests: PrtCount ) 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.

**Markham Metals** 280 Hopkins Street Whitby, ON **CA L1N 2B9** 

Contact: Service Manager

T: F: