WEAR
CONTAMINATION
FLUID CONDITION

NORMAL NORMAL ABNORMAL



Machine Id **LIEBHERR LH30M 153712-1253**

Component Front Right Wheel Hub Fluid LIEBHERR GEAR BASIC 90 L					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		LH	LH	
	Sample Date		Client Info		30 Apr 2024	14 Dec 2023	
	Machine Age	hrs	Client Info		1001	500	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		None	None	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185(m)	>450	72	41	
	Chromium	ppm	ASTM D5185(m)	>4	1	<1	
	Nickel	ppm	ASTM D5185(m)	>2	0	<1	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)		0	<1	
	Aluminum	ppm	ASTM D5185(m)	>15	<1	<1	
	Lead	ppm	ASTM D5185(m)		0	<1	
	Copper	ppm	ASTM D5185(m)	>75	8	9	
	Tin	ppm	ASTM D5185(m)		0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	VLITE	LIGHT	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	7	4	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		<1	7	
	Water		WC Method		NEG	NEG	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE NORML	NONE	
	Appearance Odor	scalar	Visual* Visual*	NORML	NORML	NORML NORML	
	Emulsified Water		Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		10	18	
Viscosity of sample indicates oil is within SAE 90 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	0	24	105	
	Barium	ppm	ASTM D5185(m)		<1	1	
	Molybdenum	ppm	ASTM D5185(m)		0	0	
	Manganese	ppm	ASTM D5185(m)		2	<1	
	Magnesium	ppm	ASTM D5185(m)		4	9	
	Calcium	ppm	ASTM D5185(m)		1016	3639	
	Phosphorus	ppm	ASTM D5185(m)		1898	1125	
	Zinc	ppm	ASTM D5185(m)	<1	453	1430	

Sulfur

Visc @ 40°C

ASTM D5185(m) 23468

ASTM D7279(m) 170

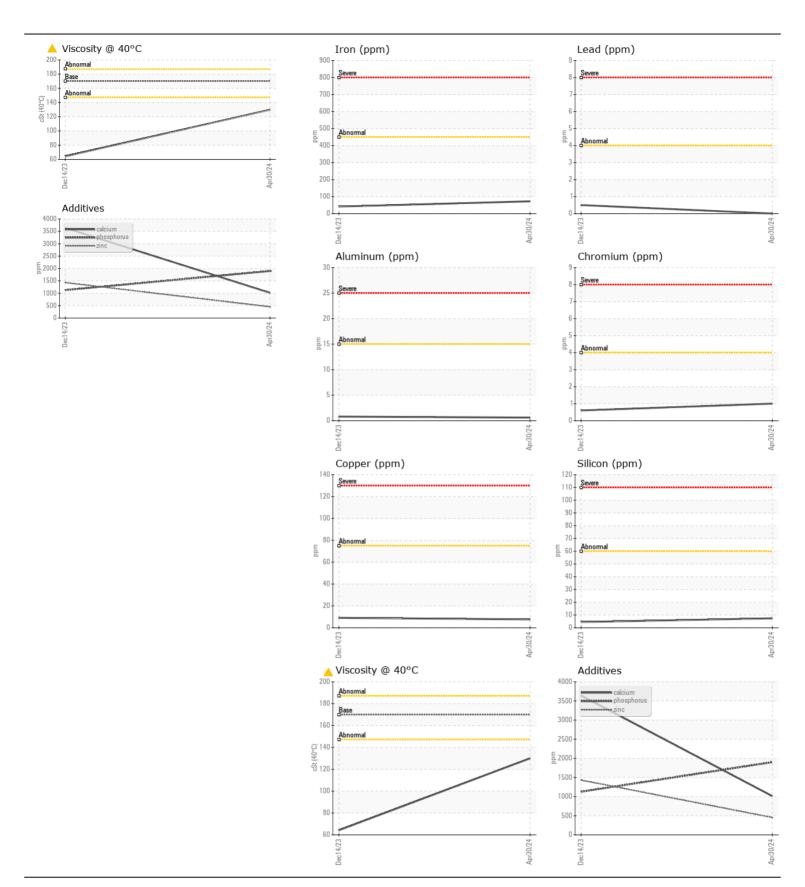
ppm

2804

64.2

18065

130





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: LH Lab Number : 02633252 Unique Number : 5774405 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 03 May 2024 **Tested** : 03 May 2024

Diagnosed : 03 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.

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Contact: Service Manager

T: F: