WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL NORMAL NORMAL



(352940)

LIEBHERR LH40M 123939-1215

Front Right Wheel Hub

GEAR OIL SAE 75W90 (--- GAL)

RFC	OMMENDATION
ILLO	

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2	
Sample Number		Client Info		LH0286710	LH0251522	LH0227274	
Sample Date		Client Info		16 Apr 2024	20 Jan 2023	28 Mar 2022	
Machine Age	hrs	Client Info		2235	975	402	
Oil Age	hrs	Client Info		0	0	0	
Filter Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		Changed	Changed	Changed	
Filter Changed		Client Info		N/A	N/A	N/A	
Sample Status	Sample Status				NORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>650	87	56	51	
Chromium	ppm	ASTM D5185(m)	>4	0	0	<1	

WEAR

Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185(m)	>650	87	56		51
Chromium	ppm	ASTM D5185(m)	>4	0	0		<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1		<1
Titanium	ppm	ASTM D5185(m)	>4	0	0		0
Silver	ppm	ASTM D5185(m)		0	0		0
Aluminum	ppm	ASTM D5185(m)	>25	3	2		2
Lead	ppm	ASTM D5185(m)	>4	2	1		<1
Copper	ppm	ASTM D5185(m)	>60	<u>^</u> 84	44		25
Tin	ppm	ASTM D5185(m)	>4	0	0		<1
Vanadium	ppm	ASTM D5185(m)		0	0		0
White Metal	scalar	Visual*	NONE	VLITE	NON	E	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NON	Е	NONE
Silicon	ppm	ASTM D5185(m)	>75	5	8		12

CONTAMINATION

There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	5	8	12	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	2	
Water		WC Method	>0.2	NEG	NEG	NEG	
Silt	scalar	Visual*	NONE	VLITE	NONE	NONE	
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE	
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG	
Sodium	ppm	ASTM D5185(m)		10	10	10	

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

	Sodium	ppm	ASTM D5185(m)		10	10	10		
	Boron	ppm	ASTM D5185(m)	400	115	91		5	
	Barium	ppm	ASTM D5185(m)	200	<1	<1		<1	
	Molybdenum	ppm	ASTM D5185(m)	12	0	<1		2	
	Manganese	ppm	ASTM D5185(m)		5	3		2	
	Magnesium	ppm	ASTM D5185(m)	12	2	2		2	
	Calcium	ppm	ASTM D5185(m)	150	175	188		259	
	Phosphorus	ppm	ASTM D5185(m)	1650	1652	1840		2186	
	Zinc	ppm	ASTM D5185(m)	125	113	82		85	
	Sulfur	ppm	ASTM D5185(m)	22500	22258	23312		25168	

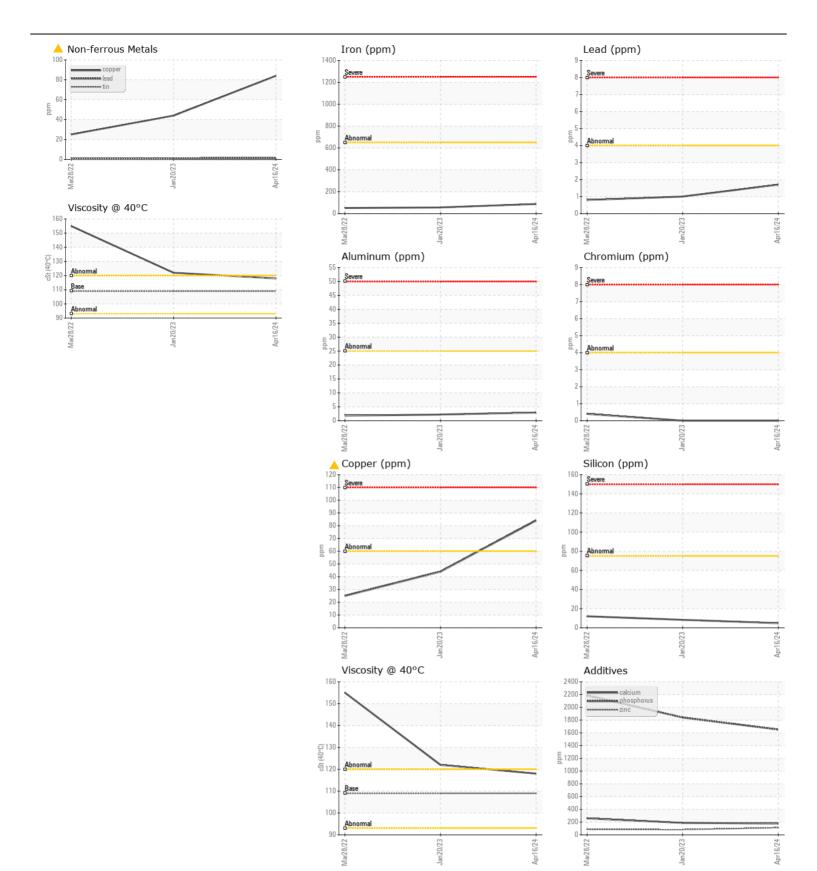
ASTM D7279(m) 109

Visc @ 40°C

155

122

118





CALA ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Sample No. Received : LH0286710

Lab Number : 02629774 Unique Number : 5762906

: 17 Apr 2024 **Tested** : 18 Apr 2024 Diagnosed : 18 Apr 2024 - Kevin Marson Test Package : MOB 1

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.

PORT PERRY SALVAGE

132 REACH INDUSTRIAL PARK PORT PERRY, ON CA L9L 1B2

Contact: Service Manager

T: F: