



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(346464)
Machine Id
LIEBHERR LH30M 124535-1253
Component
Swing Drive
Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286584	LH0269646	LH0224217
Sample Date		Client Info		16 Mar 2024	18 Oct 2023	04 Apr 2022
Machine Age	hrs	Client Info		6121	5046	2025
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1450	440	647	73
Chromium	ppm	ASTM D5185(m)	>11	3	5	<1
Nickel	ppm	ASTM D5185(m)	>3	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>4	<1	<1	0
Lead	ppm	ASTM D5185(m)	>4	2	3	<1
Copper	ppm	ASTM D5185(m)	>542	30	58	24
Tin	ppm	ASTM D5185(m)	>38	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

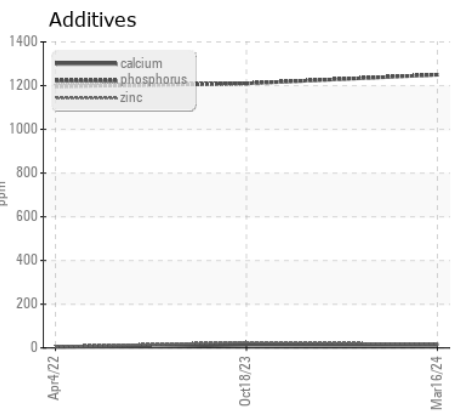
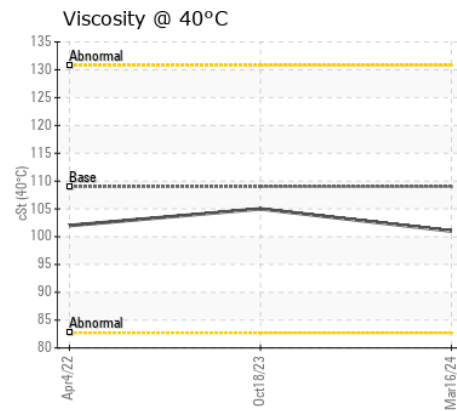
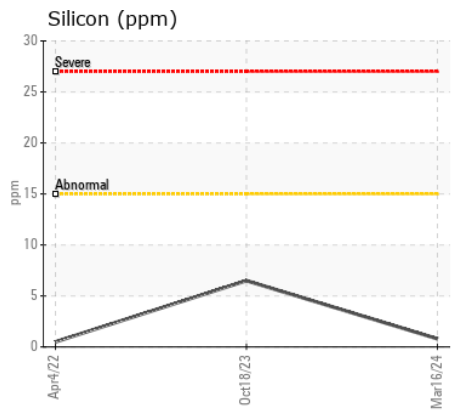
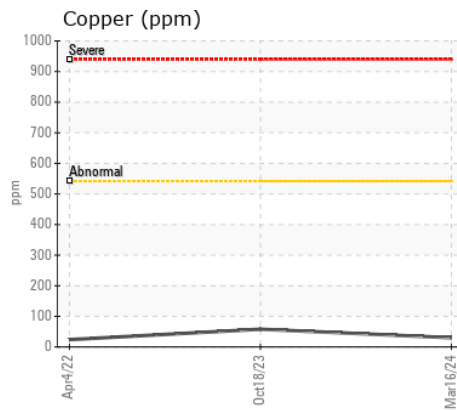
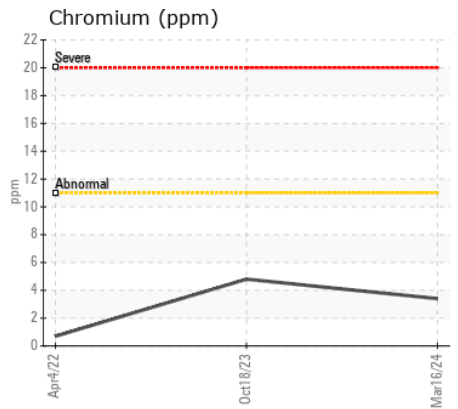
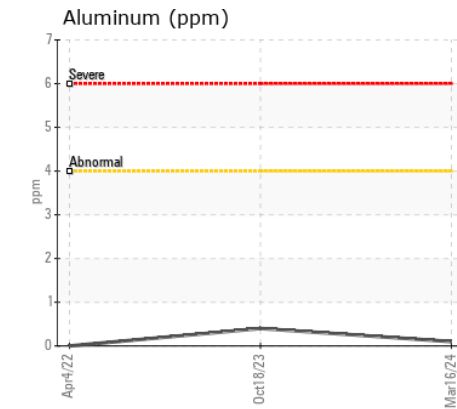
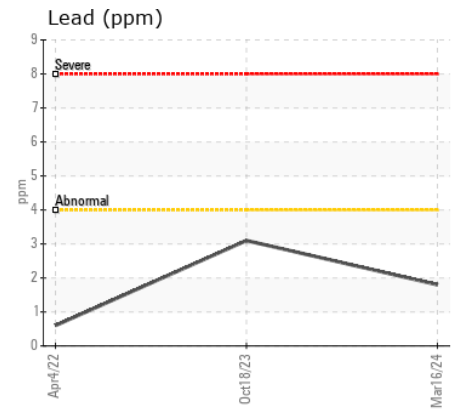
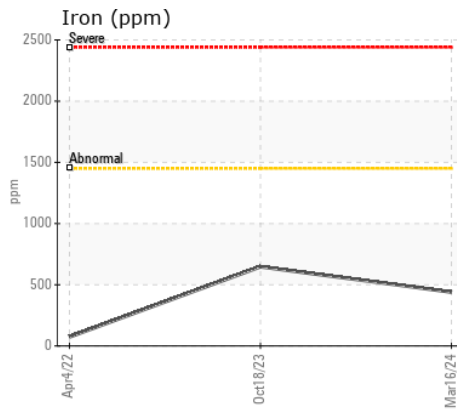
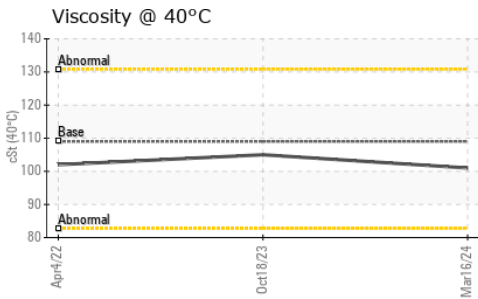
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	<1	6	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	NONE	VLITE
Debris	scalar	Visual*	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	VLITE
Appearance	scalar	Visual*	NORML	NORML	▲ WGOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	1%	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<1	1	<1
Boron	ppm	ASTM D5185(m)	400	231	277	155
Barium	ppm	ASTM D5185(m)	200	<1	1	2
Molybdenum	ppm	ASTM D5185(m)	12	0	0	0
Manganese	ppm	ASTM D5185(m)		2	4	<1
Magnesium	ppm	ASTM D5185(m)	12	2	3	<1
Calcium	ppm	ASTM D5185(m)	150	13	14	6
Phosphorus	ppm	ASTM D5185(m)	1650	1250	1210	1197
Zinc	ppm	ASTM D5185(m)	125	17	26	6
Sulfur	ppm	ASTM D5185(m)	22500	21050	20621	23241
Visc @ 40°C	cSt	ASTM D7279(m)	109	101	105	102



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0286584 **Received** : 05 Apr 2024
Lab Number : 02627091 **Tested** : 05 Apr 2024
Unique Number : 5760223 **Diagnosed** : 05 Apr 2024 - Wes Davis
Test Package : MOB 1

JOHN ROSS & SONS LTD.
 85 GLASSY AVENUE
 TRURO, NS
 CA B2N 6Z1
 Contact: Service Manager

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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F: