



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(352940)
Machine Id
LIEBHERR LH40M 123939-1215
Component
Swing Drive
Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 75W90. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286703	LH0251514	LH0227267
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				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>350	97	188	172
Chromium	ppm	ASTM D5185(m)	>15	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<1	<1	1
Copper	ppm	ASTM D5185(m)	>300	39	45	41
Tin	ppm	ASTM D5185(m)	>15	<1	1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

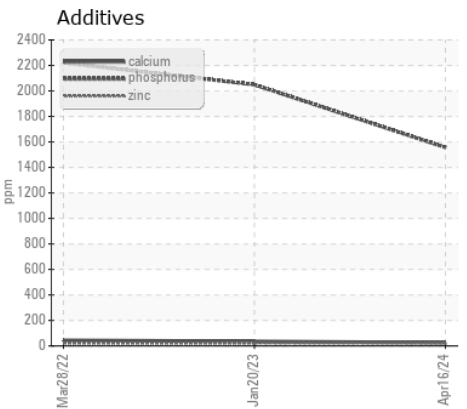
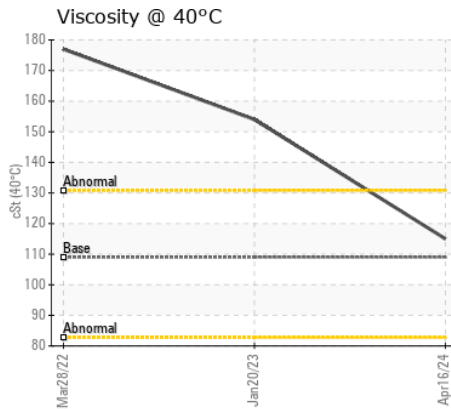
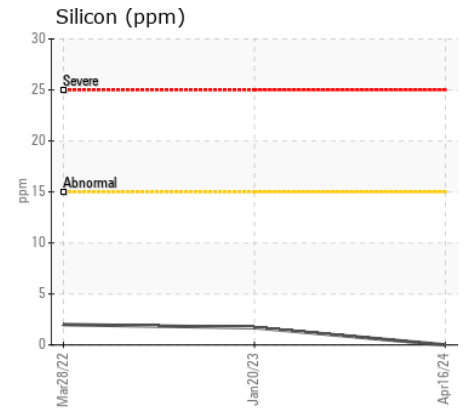
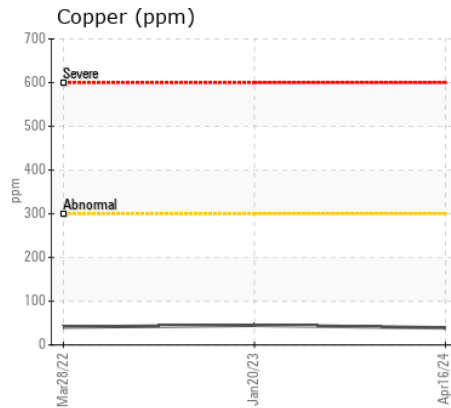
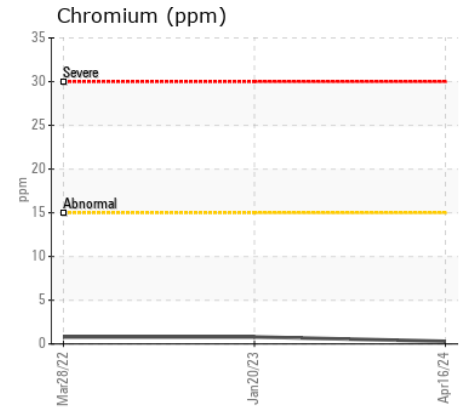
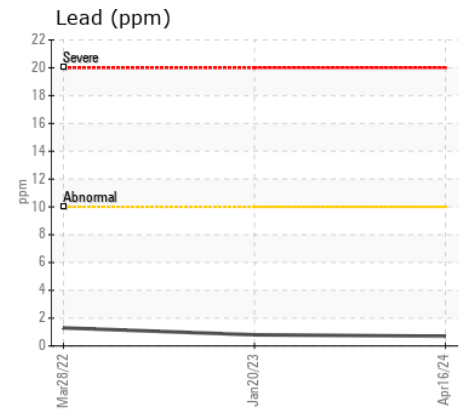
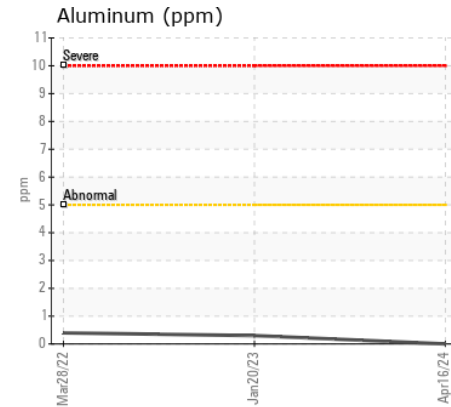
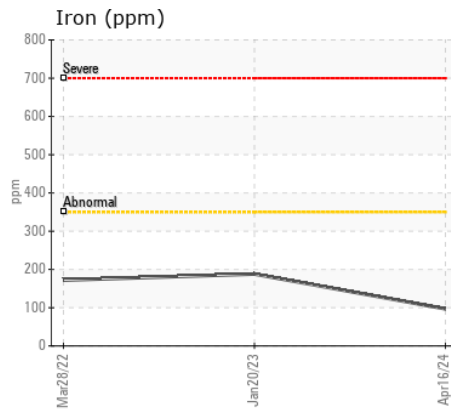
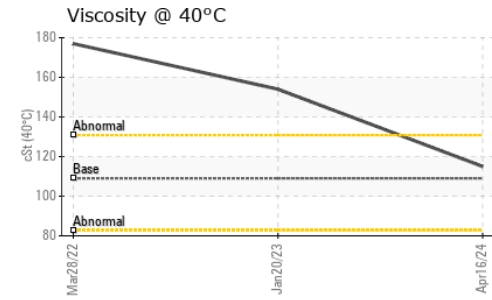
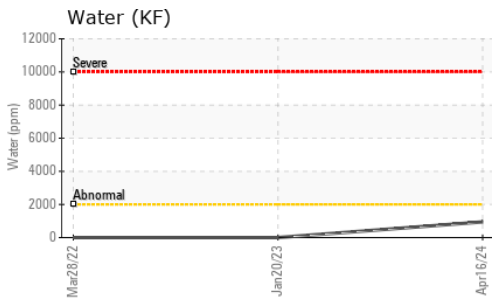
The water content is negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	0	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	2	1
Water	%	ASTM D6304*	>0.2	0.094	---	---
ppm Water	ppm	ASTM D6304*	>2000	947	---	---
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	VLITE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	.2%	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		4	6	5
Boron	ppm	ASTM D5185(m)	400	190	65	5
Barium	ppm	ASTM D5185(m)	200	4	7	8
Molybdenum	ppm	ASTM D5185(m)	12	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	2	2
Magnesium	ppm	ASTM D5185(m)	12	3	<1	<1
Calcium	ppm	ASTM D5185(m)	150	26	36	45
Phosphorus	ppm	ASTM D5185(m)	1650	1557	2049	2221
Zinc	ppm	ASTM D5185(m)	125	20	21	21
Sulfur	ppm	ASTM D5185(m)	22500	21564	23878	24079
Visc @ 40°C	cSt	ASTM D7279(m)	109	115	154	177



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0286703 **Received** : 17 Apr 2024
Lab Number : 02629767 **Tested** : 18 Apr 2024
Unique Number : 5762899 **Diagnosed** : 18 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: KF)

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

T:
F: