



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(354956)
Machine Id
LIEBHERR A922 128674-1509
Component
Rear Left Wheel Hub
Fluid
GEAR OIL SAE 75W90 (3 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH0274100	LH0238917
Sample Date		Client Info		18 Apr 2024	01 Sep 2023	20 Jan 2023
Machine Age	hrs	Client Info		3800	2993	2095
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		None	N/A	N/A
Sample Status				NORMAL	NORMAL	SEVERE

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>650	25	37	▲ 711
Chromium	ppm	ASTM D5185(m)	>4	0	<1	▲ 25
Nickel	ppm	ASTM D5185(m)	>4	0	<1	▲ 4
Titanium	ppm	ASTM D5185(m)	>4	0	0	2
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	0	<1	▲ 26
Lead	ppm	ASTM D5185(m)	>4	0	0	▲ 3
Copper	ppm	ASTM D5185(m)	>60	2	5	▲ 74
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

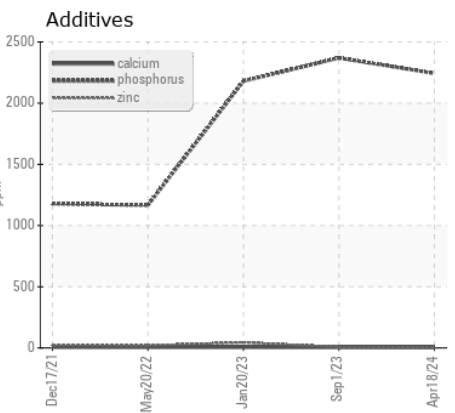
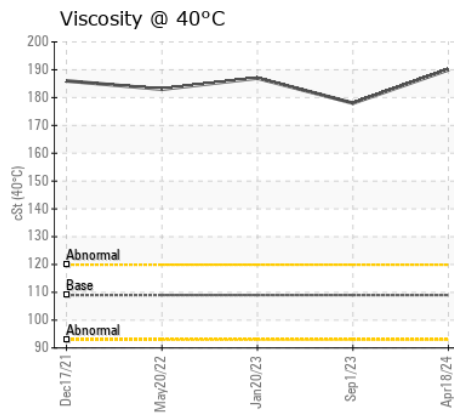
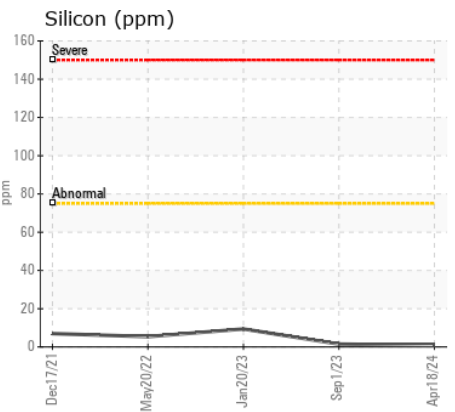
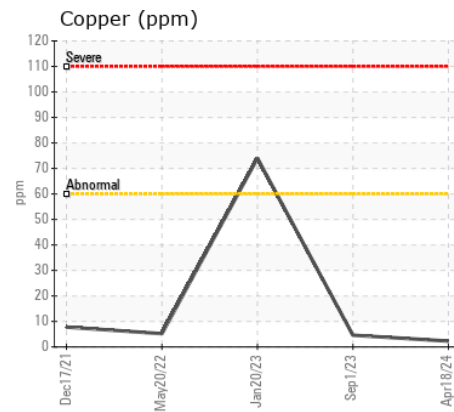
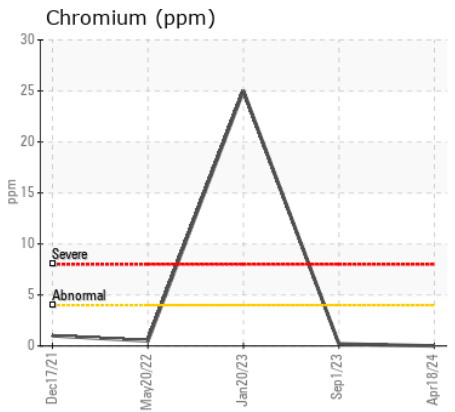
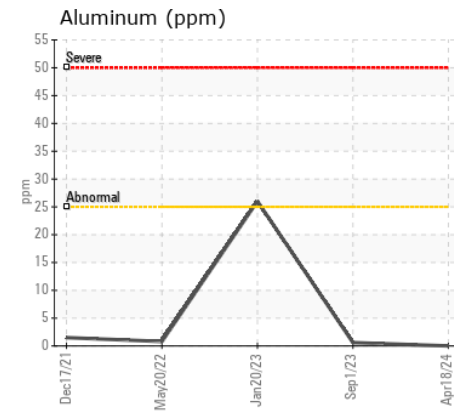
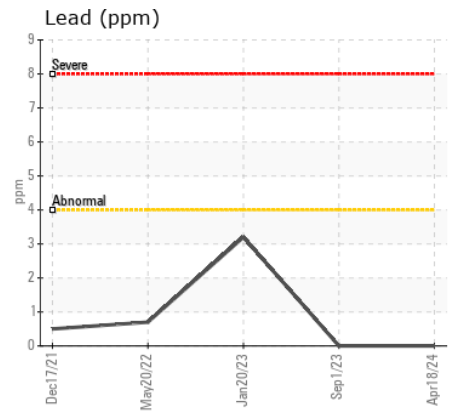
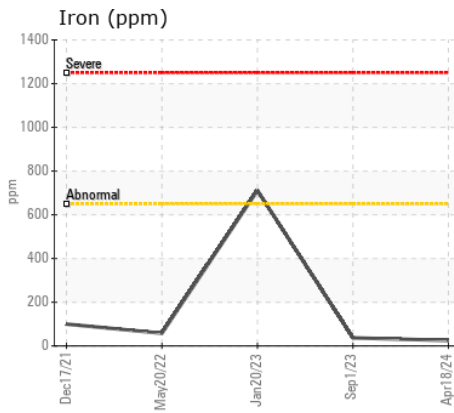
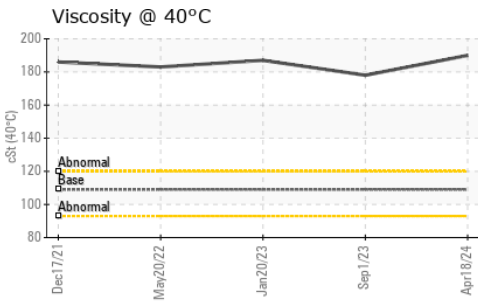
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<1	2	9
Potassium	ppm	ASTM D5185(m)	>20	0	<1	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	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

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 90 range, advise investigate. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	3	9
Boron	ppm	ASTM D5185(m)	400	<1	1	1
Barium	ppm	ASTM D5185(m)	200	<1	3	52
Molybdenum	ppm	ASTM D5185(m)	12	0	0	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	12
Magnesium	ppm	ASTM D5185(m)	12	<1	<1	3
Calcium	ppm	ASTM D5185(m)	150	3	5	7
Phosphorus	ppm	ASTM D5185(m)	1650	2243	2369	2179
Zinc	ppm	ASTM D5185(m)	125	4	7	45
Sulfur	ppm	ASTM D5185(m)	22500	23914	25054	34896
Visc @ 40°C	cSt	ASTM D7279(m)	109	190	178	187



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH
Lab Number : 02631055
Unique Number : 5772208
Test Package : MOB 1
Received : 23 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Kevin Marson

Transec Common Inc.
 2075 Boul. Fortin
 Laval, QC
 CA H7S 1P4
 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: