



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(360378)
Machine Id
LIEBHERR A918 134117-1508
Component
Front Right Wheel Hub
Fluid
CHEVRON DELO SYNTHETIC GEAR 75W90 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0216265	LH0216252	LH0226793
Sample Date		Client Info		06 Jan 2024	18 Nov 2022	28 Apr 2022
Machine Age	hrs	Client Info		2036	1007	529
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	None	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>650	71	29	61
Chromium	ppm	ASTM D5185(m)	>4	<1	0	1
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>4	0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	1
Lead	ppm	ASTM D5185(m)	>4	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>60	32	22	24
Tin	ppm	ASTM D5185(m)	>4	1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

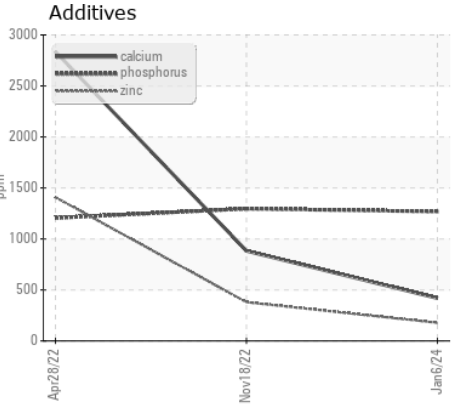
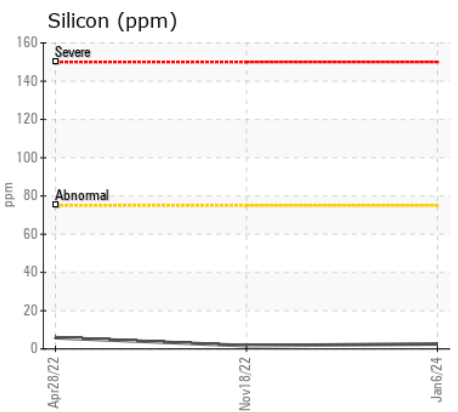
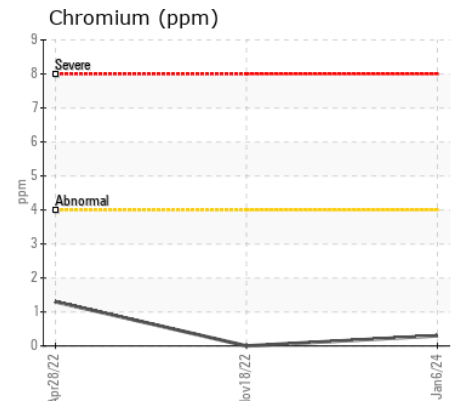
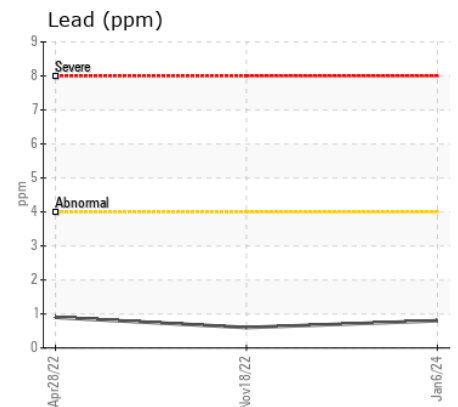
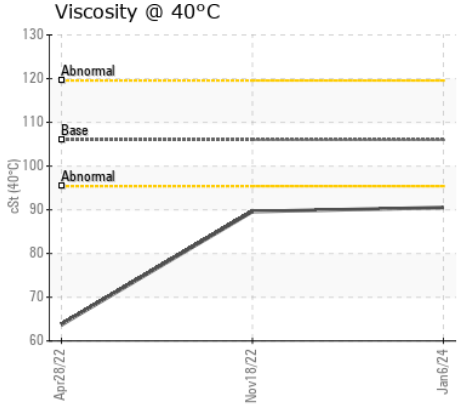
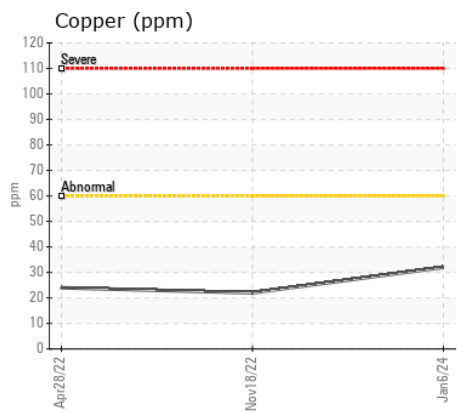
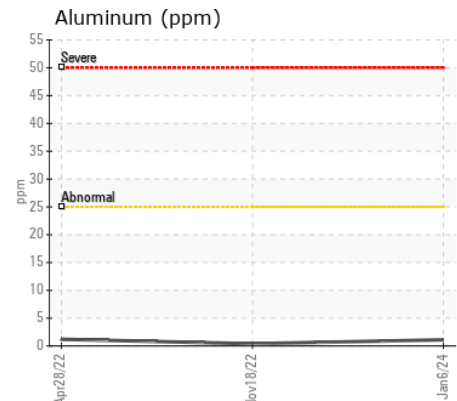
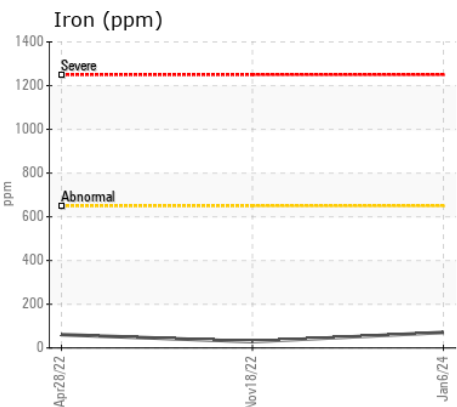
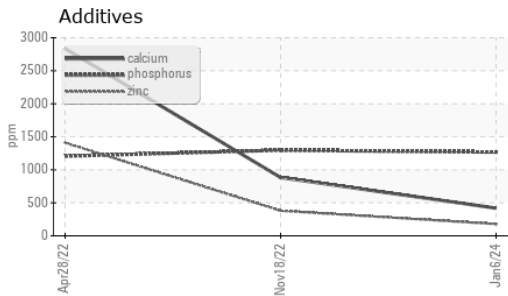
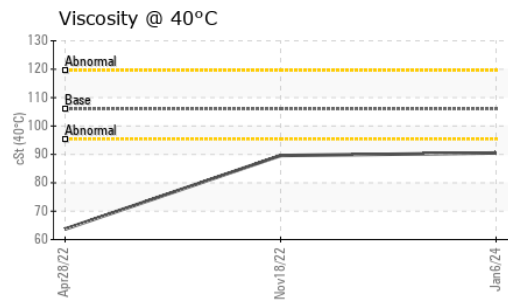
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	3	2	6
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	VLITE	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

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		8	11	16
Boron	ppm	ASTM D5185(m)		108	191	96
Barium	ppm	ASTM D5185(m)		4	2	5
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	2
Magnesium	ppm	ASTM D5185(m)		4	4	9
Calcium	ppm	ASTM D5185(m)		419	883	2835
Phosphorus	ppm	ASTM D5185(m)		1268	1296	1206
Zinc	ppm	ASTM D5185(m)		178	380	1409
Sulfur	ppm	ASTM D5185(m)		19204	16576	2885
Visc @ 40°C	cSt	ASTM D7279(m)	106	90.5	89.6	▲ 63.7



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **FAUBERT PRECISION CONTRACTING**
Sample No. : LH0216265 **Received** : 19 Jan 2024 1394 194 STREET
Lab Number : 02610028 **Diagnosed** : 19 Jan 2024 SURREY, BC
Unique Number : 5711114 **Diagnostician** : Kevin Marson CA V3Z 9R9
Test Package : MOBCE (Additional Tests: Visual) **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: