



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L556 069061-1826
Component
Front Differential
Fluid
LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0257334	LH0257328	LH0257284
Sample Date		Client Info		04 Apr 2024	25 Jan 2024	12 May 2023
Machine Age	hrs	Client Info		4986	4000	1010
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		N/A	N/A	None
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1000	33	76	262
Chromium	ppm	ASTM D5185(m)	>10	0	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	1	▲ 13
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	0	<1	2
Lead	ppm	ASTM D5185(m)	>5	0	2	6
Copper	ppm	ASTM D5185(m)	>100	28	67	259
Tin	ppm	ASTM D5185(m)	>10	<1	2	15
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	VLITE	VLITE	NONE

CONTAMINATION

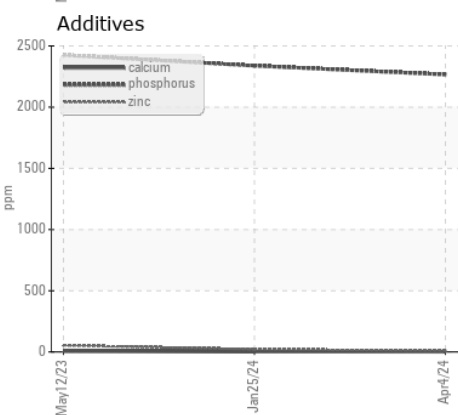
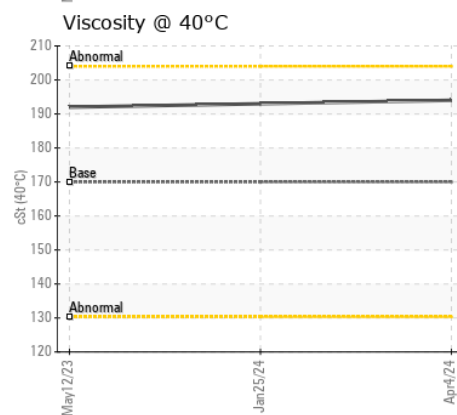
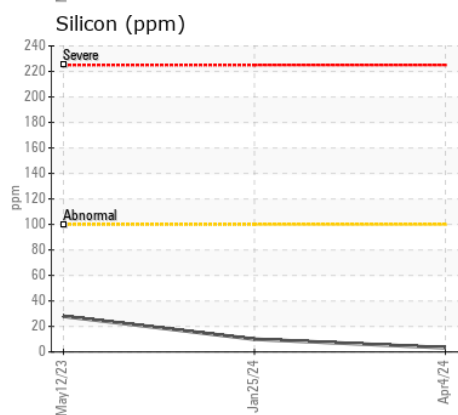
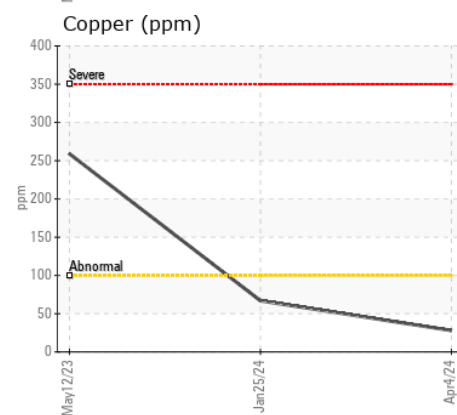
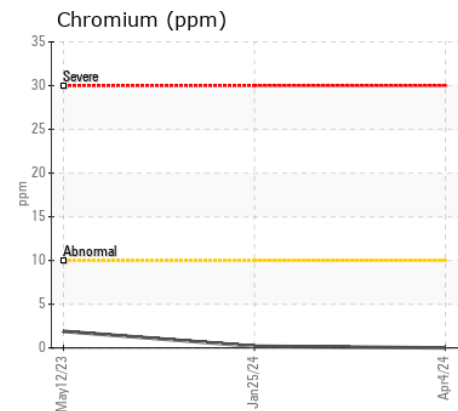
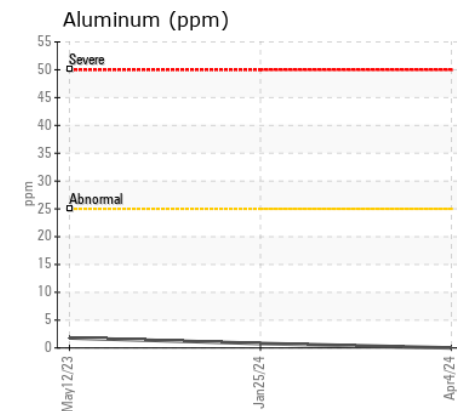
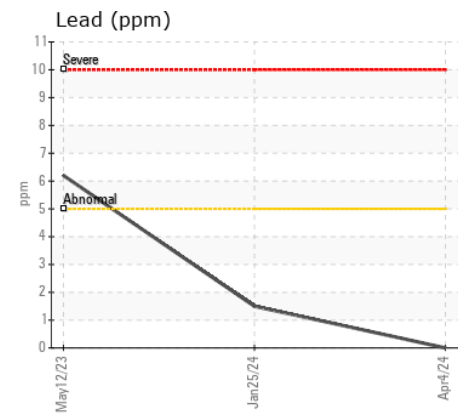
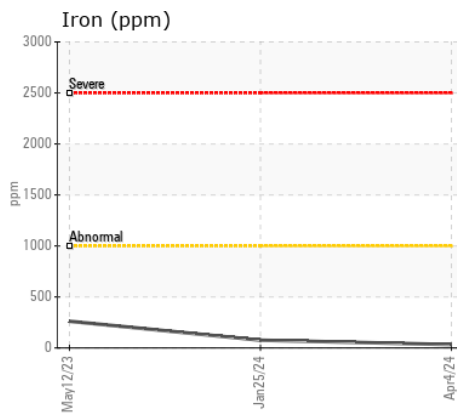
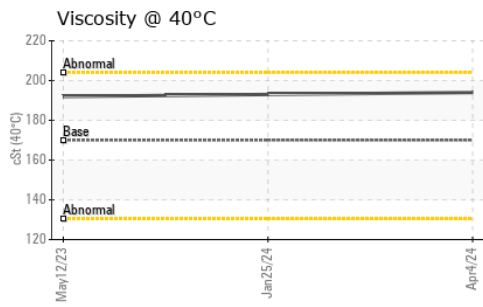
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	3	10	28
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>.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	VLITE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	6
Boron	ppm	ASTM D5185(m)	0	<1	<1	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	2	6	51
Magnesium	ppm	ASTM D5185(m)	<1	0	<1	3
Calcium	ppm	ASTM D5185(m)	<1	2	2	8
Phosphorus	ppm	ASTM D5185(m)	2143	2266	2338	2426
Zinc	ppm	ASTM D5185(m)	<1	10	21	54
Sulfur	ppm	ASTM D5185(m)	23468	23857	24246	27671
Visc @ 40°C	cSt	ASTM D7279(m)	170	194	193	192



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0257334 **Received** : 15 Apr 2024
Lab Number : 02628973 **Tested** : 16 Apr 2024
Unique Number : 5762105 **Diagnosed** : 16 Apr 2024 - Wes Davis
Test Package : MOBCE (Additional Tests: Visual)

PRODUITS FORESTIERS D.G. LTEE
 313 RANG ST-JOSEPH
 STE-AURELIE, QC
 CA G0M 1M0
 Contact: Roger .

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: (418)593-3547
 F: (418)593-3633