



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L556 070863-1826
Component
Rear 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		LH0257181	LH0257214	LH0257170
Sample Date		Client Info		16 Feb 2024	01 Jan 2024	18 May 2023
Machine Age	hrs	Client Info		5005	4000	978
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		None	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1000	57	130	350
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	1	4
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	2	3
Lead	ppm	ASTM D5185(m)	>5	<1	2	6
Copper	ppm	ASTM D5185(m)	>100	27	87	198
Tin	ppm	ASTM D5185(m)	>10	1	5	13
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

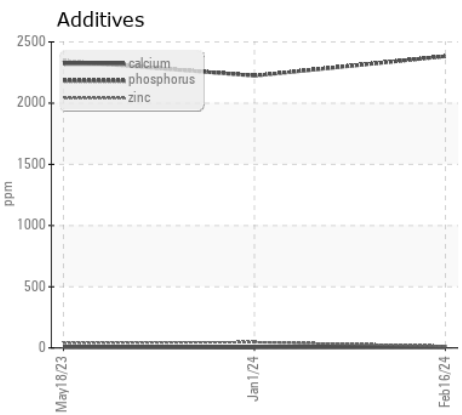
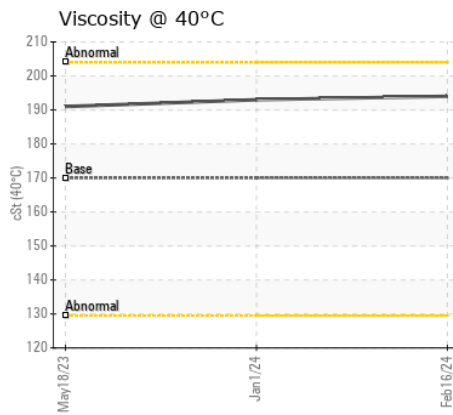
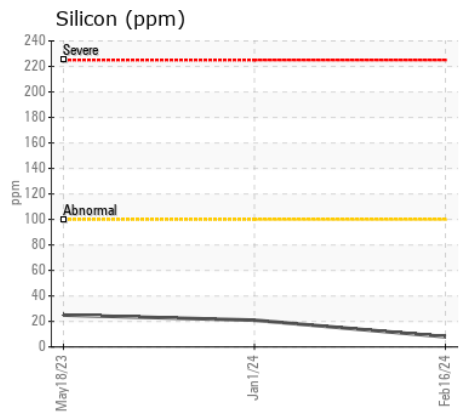
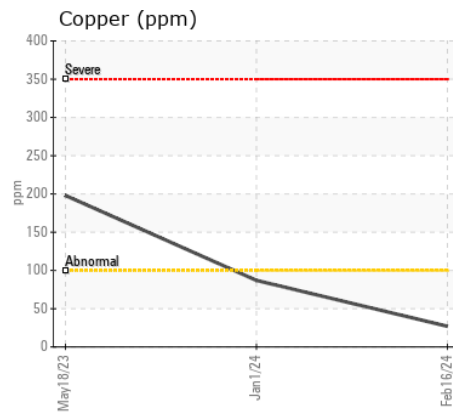
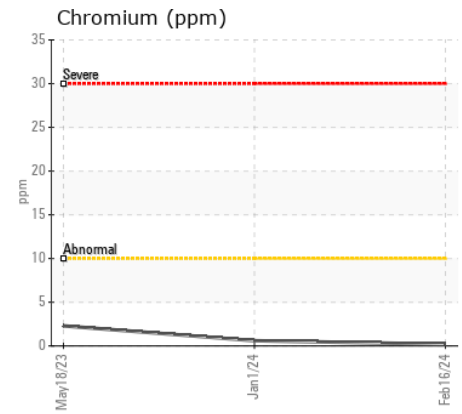
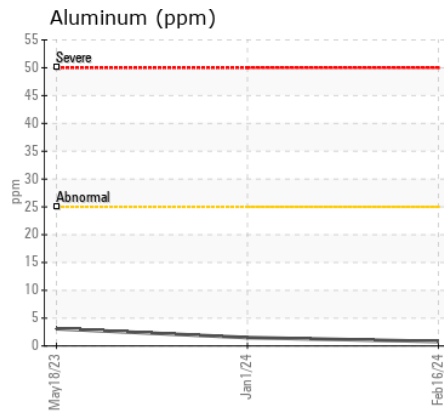
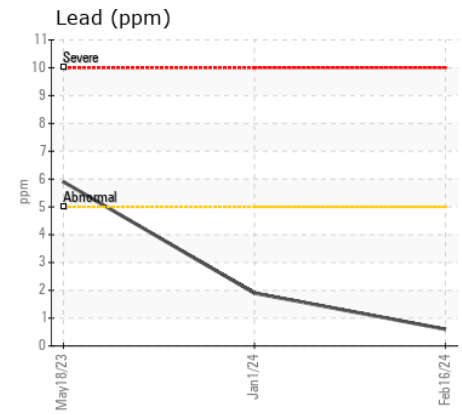
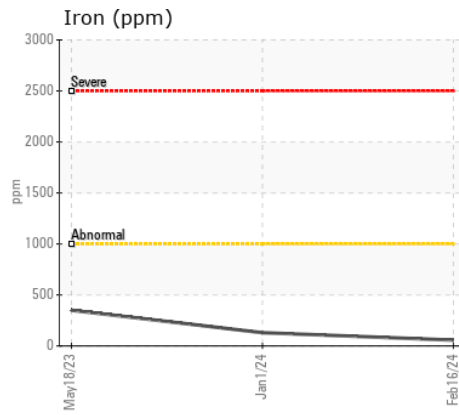
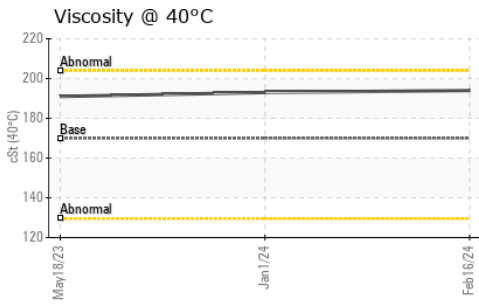
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	8	21	25
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<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	NONE
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	4	11
Boron	ppm	ASTM D5185(m)	0	<1	<1	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	<1
Manganese	ppm	ASTM D5185(m)	0	3	13	35
Magnesium	ppm	ASTM D5185(m)	<1	<1	<1	1
Calcium	ppm	ASTM D5185(m)	<1	3	2	6
Phosphorus	ppm	ASTM D5185(m)	2143	2383	2224	2345
Zinc	ppm	ASTM D5185(m)	<1	15	47	41
Sulfur	ppm	ASTM D5185(m)	23468	24267	23889	26479
Visc @ 40°C	cSt	ASTM D7279(m)	170	194	193	191



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0257181 **Received** : 29 Feb 2024
Lab Number : 02619016 **Tested** : 29 Feb 2024
Unique Number : 5736126 **Diagnosed** : 29 Feb 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.

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