



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
114200-1217
Component
Rear Left Wheel Hub
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0290942	LH0242401	LH
Sample Date		Client Info		14 May 2024	13 Oct 2022	13 Nov 2021
Machine Age	hrs	Client Info		5300	3197	2166
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>650	74	18	43
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	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>4	0	4	<1
Copper	ppm	ASTM D5185(m)	>60	1	10	21
Tin	ppm	ASTM D5185(m)	>4	0	0	<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

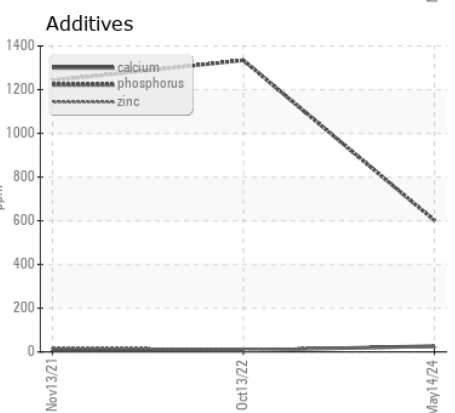
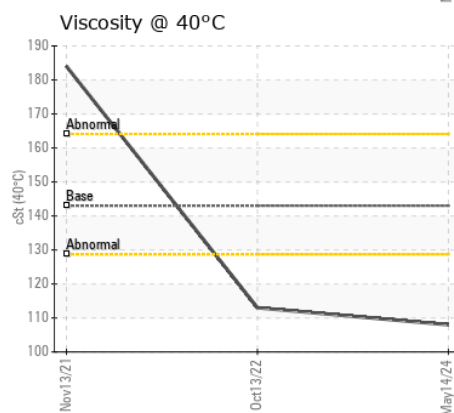
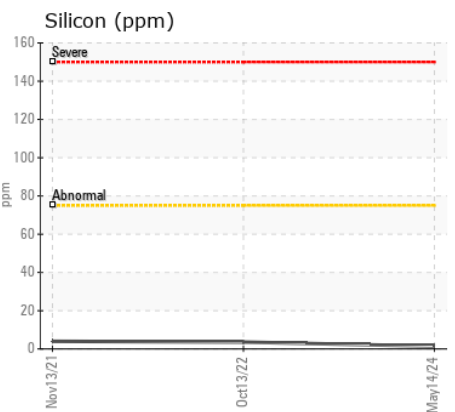
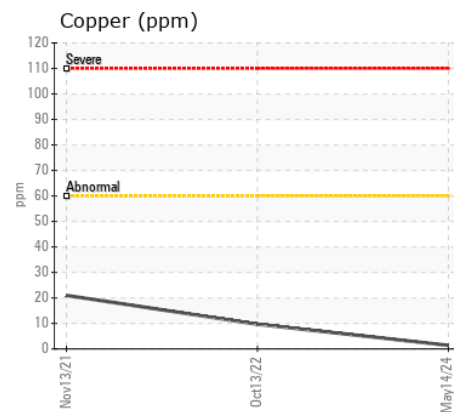
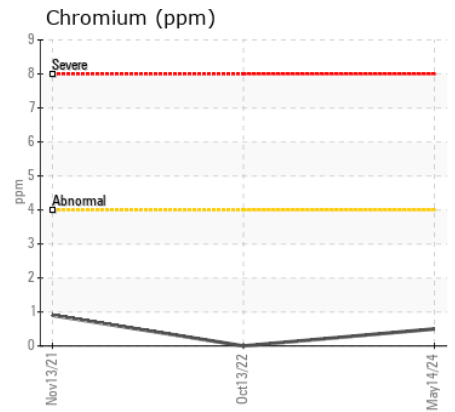
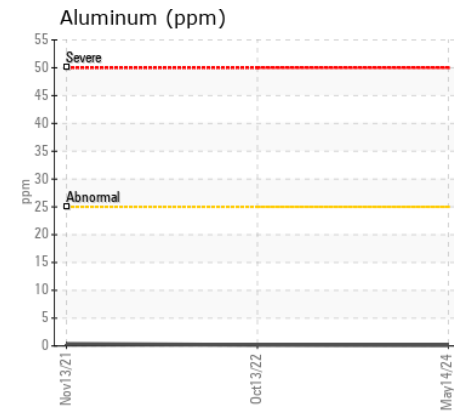
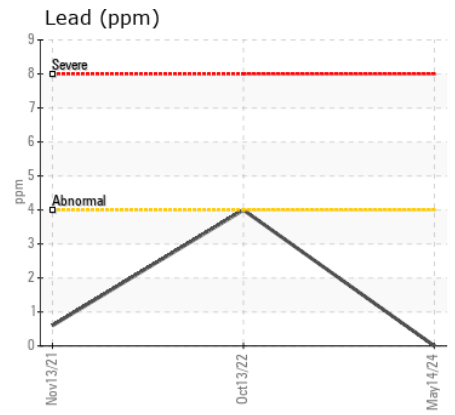
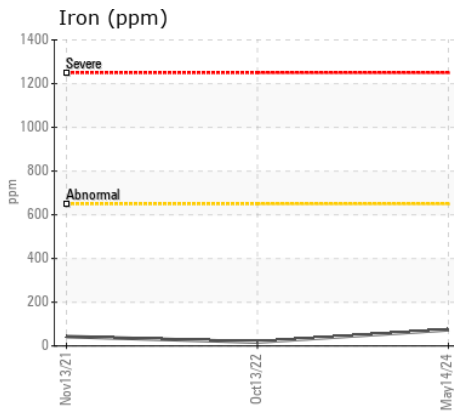
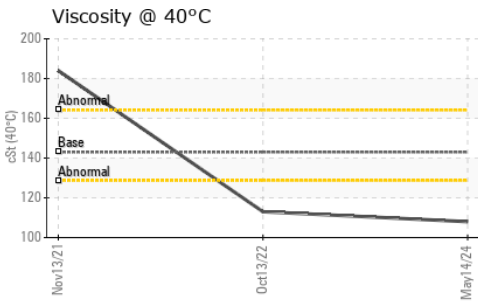
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	1	4	4
Potassium	ppm	ASTM D5185(m)	>20	7	<1	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	VLITE	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

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

Sodium	ppm	ASTM D5185(m)	>170	2	1	3
Boron	ppm	ASTM D5185(m)	400	16	279	4
Barium	ppm	ASTM D5185(m)	200	2	73	364
Molybdenum	ppm	ASTM D5185(m)	12	<1	0	0
Manganese	ppm	ASTM D5185(m)		1	<1	1
Magnesium	ppm	ASTM D5185(m)	12	13	1	<1
Calcium	ppm	ASTM D5185(m)	150	27	7	8
Phosphorus	ppm	ASTM D5185(m)	1650	602	1334	1242
Zinc	ppm	ASTM D5185(m)	125	22	12	18
Sulfur	ppm	ASTM D5185(m)	22500	24058	23754	27760
Visc @ 40°C	cSt	ASTM D7279(m)	143	108	113	184



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0290942
Lab Number : 02636140
Unique Number : 5785302
Test Package : MOB 1
Received : 16 May 2024
Tested : 16 May 2024
Diagnosed : 16 May 2024 - Wes Davis

American Iron and Metal
 4250 NORTH SERVICE ROAD
 WINDSOR, ON
 CA N8W 5X2
 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.

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F: