



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR 151293-1216
Component
Hydraulic System
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

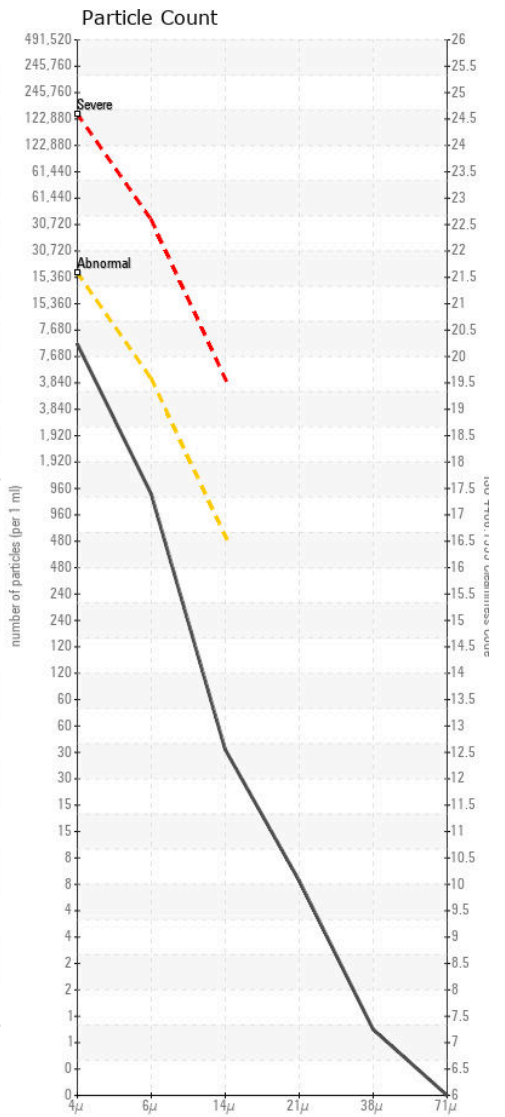
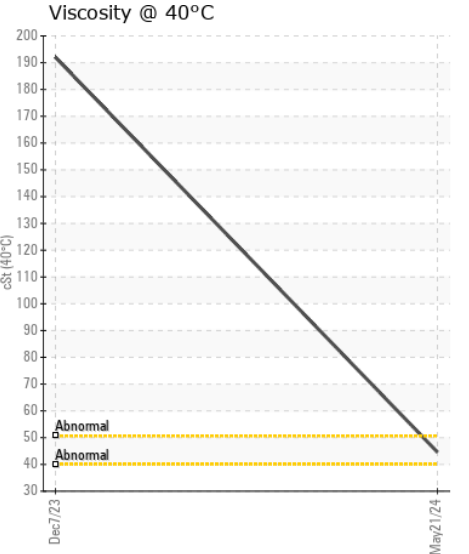
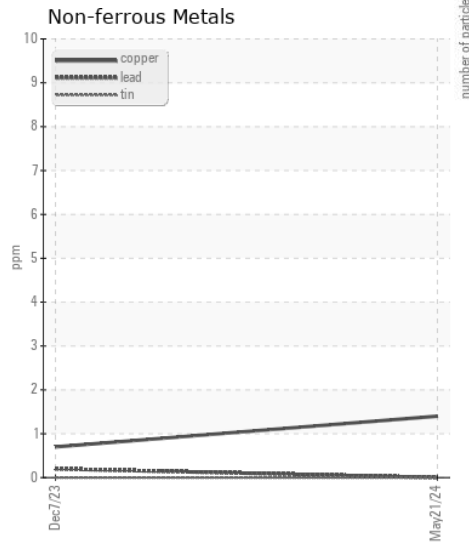
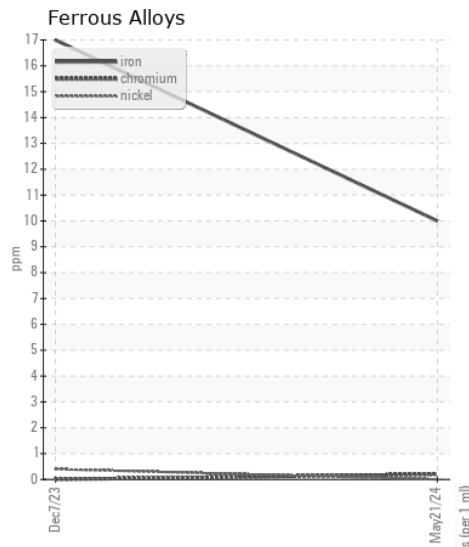
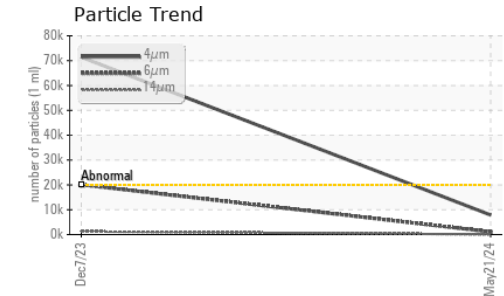
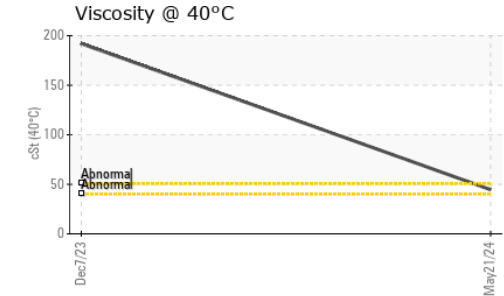
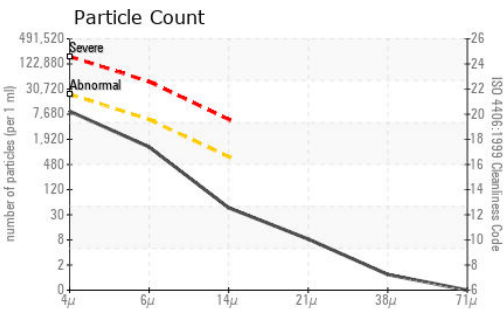
CONTAMINATION

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0290908	LH0281561	---
Sample Date		Client Info		21 May 2024	07 Dec 2023	---
Machine Age	hrs	Client Info		1496	616	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	N/A	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---
Iron	ppm	ASTM D5185(m)	>50	10	17	---
Chromium	ppm	ASTM D5185(m)	>5	<1	0	---
Nickel	ppm	ASTM D5185(m)	>2	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	<1	---
Aluminum	ppm	ASTM D5185(m)	>2	<1	<1	---
Lead	ppm	ASTM D5185(m)	>4	0	<1	---
Copper	ppm	ASTM D5185(m)	>10	1	<1	---
Tin	ppm	ASTM D5185(m)	>2	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185(m)	>17	1	<1	---
Potassium	ppm	ASTM D5185(m)	>20	<1	3	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	7873	▲ 71430	---
Particles >6µm		ASTM D7647	>5000	1102	▲ 20065	---
Particles >14µm		ASTM D7647	>640	39	● 1251	---
Particles >21µm		ASTM D7647	>160	7	● 269	---
Particles >38µm		ASTM D7647	>40	1	13	---
Particles >71µm		ASTM D7647	>10	0	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/17/12	▲ 23/22/17	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	VLITE	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---
Sodium	ppm	ASTM D5185(m)		<1	5	---
Boron	ppm	ASTM D5185(m)		<1	1	---
Barium	ppm	ASTM D5185(m)		0	<1	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		0	1	---
Magnesium	ppm	ASTM D5185(m)		6	1	---
Calcium	ppm	ASTM D5185(m)		967	14	---
Phosphorus	ppm	ASTM D5185(m)		634	1568	---
Zinc	ppm	ASTM D5185(m)		751	15	---
Sulfur	ppm	ASTM D5185(m)		2829	24820	---
Visc @ 40°C	cSt	ASTM D7279(m)		44.6	192	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0290908 **Received** : 22 May 2024
Lab Number : 02636962 **Tested** : 23 May 2024
Unique Number : 5786124 **Diagnosed** : 23 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PrtCount)

1625066 ONTARIO LTD.
 870 MACKAY RD
 PICKERING, ON
 CA L1W 2Y4
 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: