



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR L586 070058-1761
Component
Hydraulic System
Fluid
NOT GIVEN (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH0260168	---
Sample Date		Client Info		03 May 2024	19 May 2023	---
Machine Age	hrs	Client Info		3352	1026	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Chngd	N/A	---
Filter Changed		Client Info		Not Chngd	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	25	17	---
Chromium	ppm	ASTM D5185(m)	>5	1	<1	---
Nickel	ppm	ASTM D5185(m)	>2	0	0	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>5	3	2	---
Lead	ppm	ASTM D5185(m)	>15	6	3	---
Copper	ppm	ASTM D5185(m)	>10	3	2	---
Tin	ppm	ASTM D5185(m)	>2	0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

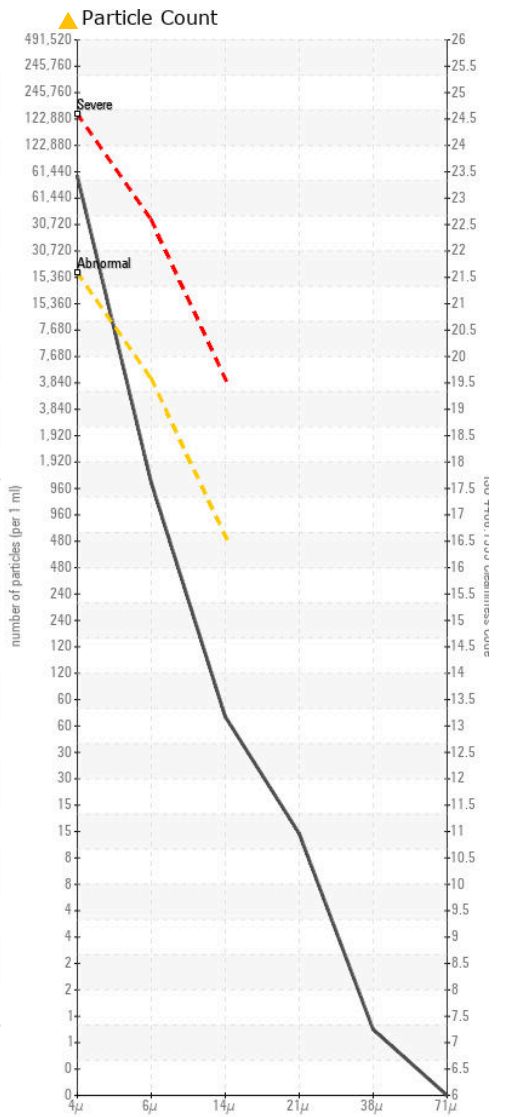
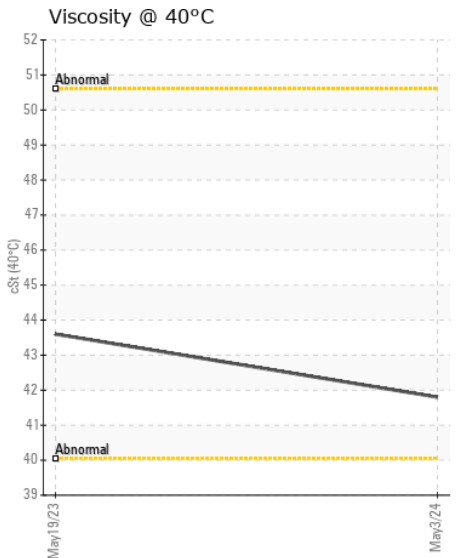
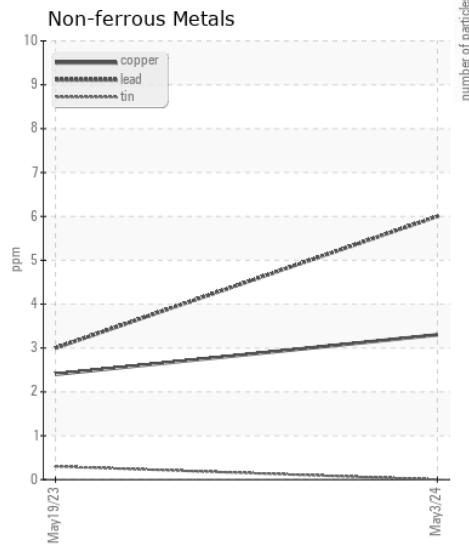
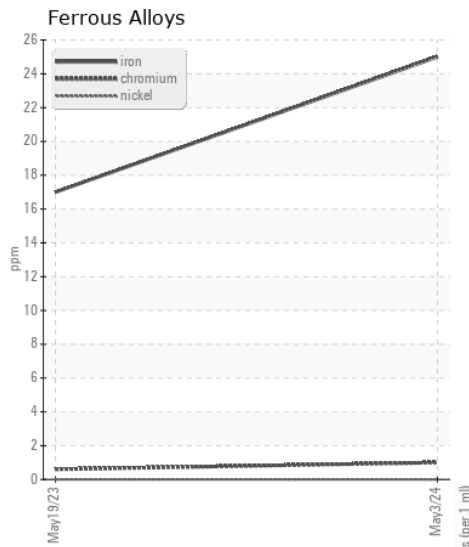
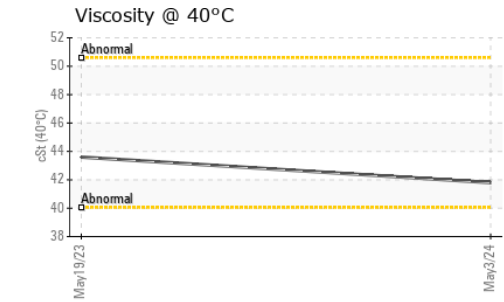
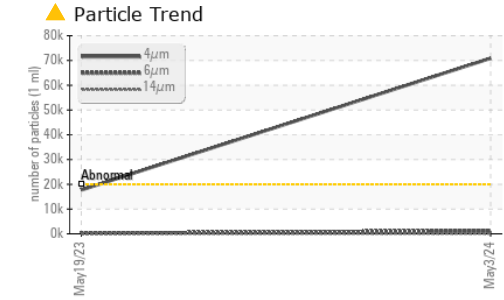
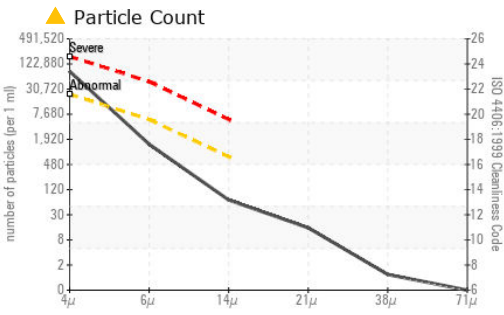
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>15	12	8	---
Potassium	ppm	ASTM D5185(m)	>20	1	1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>20000	70908	17697	---
Particles >6µm		ASTM D7647	>5000	1283	182	---
Particles >14µm		ASTM D7647	>640	60	5	---
Particles >21µm		ASTM D7647	>160	13	2	---
Particles >38µm		ASTM D7647	>40	1	1	---
Particles >71µm		ASTM D7647	>10	0	1	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/17/13	21/15/10	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
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	---

FLUID CONDITION

The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185(m)		1	<1	---
Boron	ppm	ASTM D5185(m)		<1	0	---
Barium	ppm	ASTM D5185(m)		<1	0	---
Molybdenum	ppm	ASTM D5185(m)		0	0	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		5	4	---
Calcium	ppm	ASTM D5185(m)		1276	1451	---
Phosphorus	ppm	ASTM D5185(m)		593	688	---
Zinc	ppm	ASTM D5185(m)		696	698	---
Sulfur	ppm	ASTM D5185(m)		3221	3668	---
Visc @ 40°C	cSt	ASTM D7279(m)		41.8	43.6	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH **Received** : 07 May 2024
Lab Number : 02633891 **Tested** : 08 May 2024
Unique Number : 5775044 **Diagnosed** : 08 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PrtCount)

Gravier Collet Gravel
 SW31-6-8W
 Notre Dame de Lourdes, MB
 CA R0G 1M0
 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: