



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR R934C 037803-027
Component
Hydraulic System
Fluid
NOT GIVEN (290 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

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

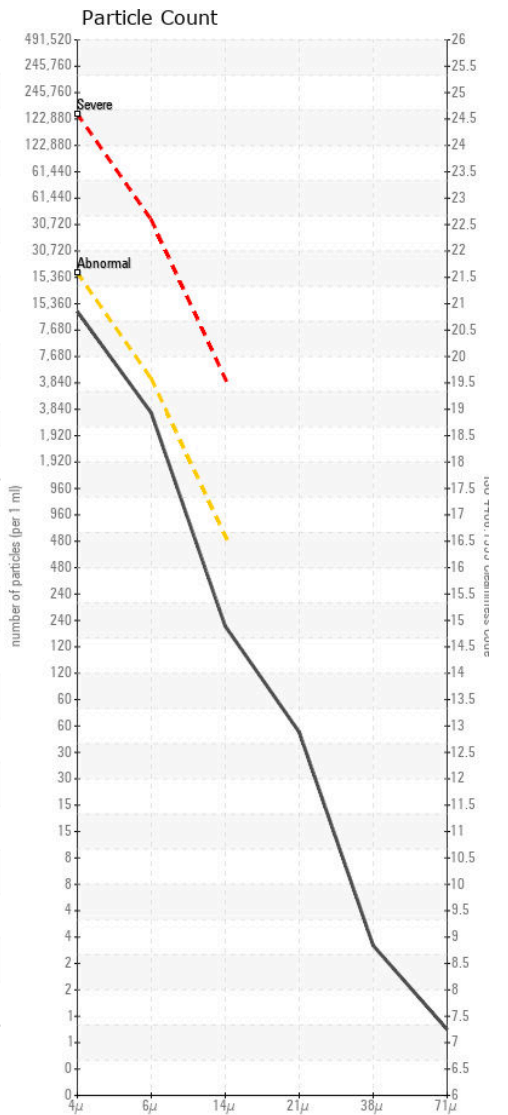
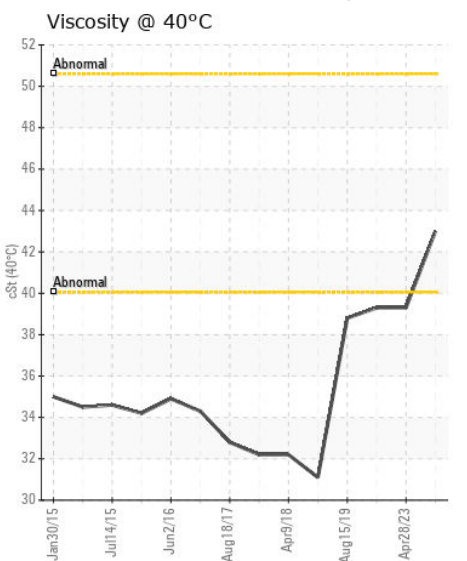
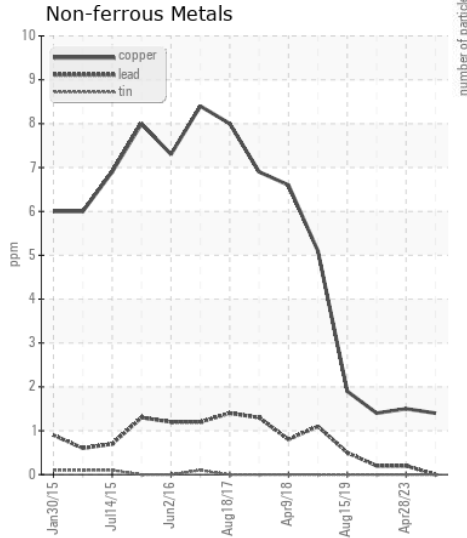
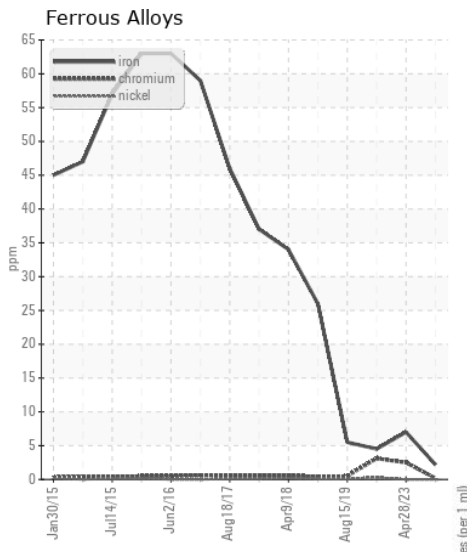
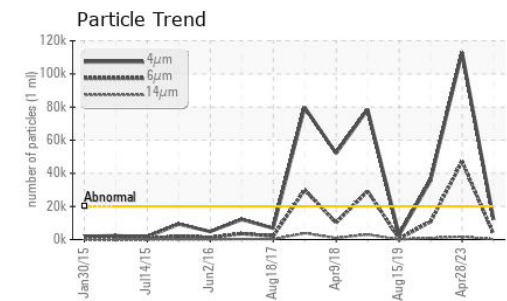
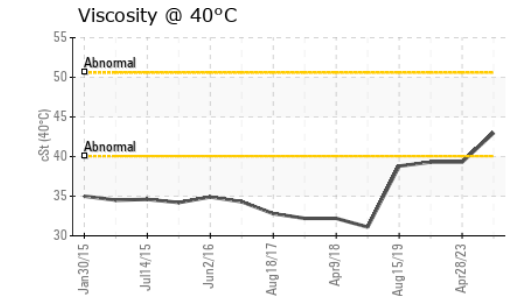
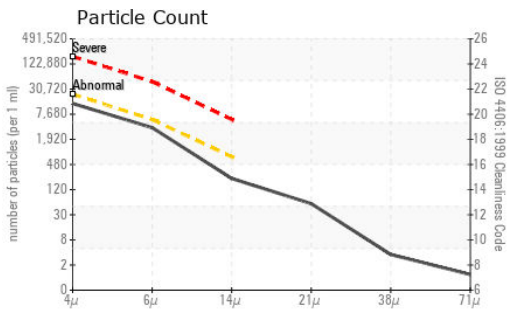
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH	LH	LH0234432
Sample Date		Client Info		15 Apr 2024	28 Apr 2023	21 Jul 2022
Machine Age	hrs	Client Info		22505	0	18513
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	SEVERE	ABNORMAL

Iron	ppm	ASTM D5185(m)	>50	2	7	4
Chromium	ppm	ASTM D5185(m)	>15	<1	2	3
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>8	0	<1	<1
Lead	ppm	ASTM D5185(m)	>5	0	<1	<1
Copper	ppm	ASTM D5185(m)	>15	1	2	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185(m)	>25	0	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>20000	12047	▲ 113013	● 35651
Particles >6µm		ASTM D7647	>5000	3193	▲ 47166	▲ 10810
Particles >14µm		ASTM D7647	>640	196	▲ 1704	● 935
Particles >21µm		ASTM D7647	>160	49	▲ 375	169
Particles >38µm		ASTM D7647	>40	3	34	8
Particles >71µm		ASTM D7647	>10	1	3	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/19/15	▲ 24/23/18	▲ 22/21/17
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	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*	>0.1	NEG	NEG	NEG

Sodium	ppm	ASTM D5185(m)		<1	0	<1
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		2	<1	1
Calcium	ppm	ASTM D5185(m)		83	76	70
Phosphorus	ppm	ASTM D5185(m)		475	528	467
Zinc	ppm	ASTM D5185(m)		616	598	579
Sulfur	ppm	ASTM D5185(m)		1145	1222	1137
Visc @ 40°C	cSt	ASTM D7279(m)		43.0	39.3	39.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH **Received** : 19 Apr 2024
Lab Number : 02630264 **Tested** : 22 Apr 2024
Unique Number : 5763396 **Diagnosed** : 22 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PrtCount)

Urban Mine
 72 Rothwell Rd.
 Winnipeg, MB
 CA R3P 2H7
 Contact: SERVICE

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: (204)774-0192
 F: