



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**LIEBHERR LH50M 138820-1216**  
Component  
**Hydraulic System**  
Fluid  
**NOT GIVEN (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH</b>	LH0279436	LH
Sample Date		Client Info		<b>01 May 2024</b>	11 Dec 2023	10 Sep 2023
Machine Age	hrs	Client Info		<b>1000</b>	2140	950
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>7</b>	7	9
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>10	<b>3</b>	3	3
Tin	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

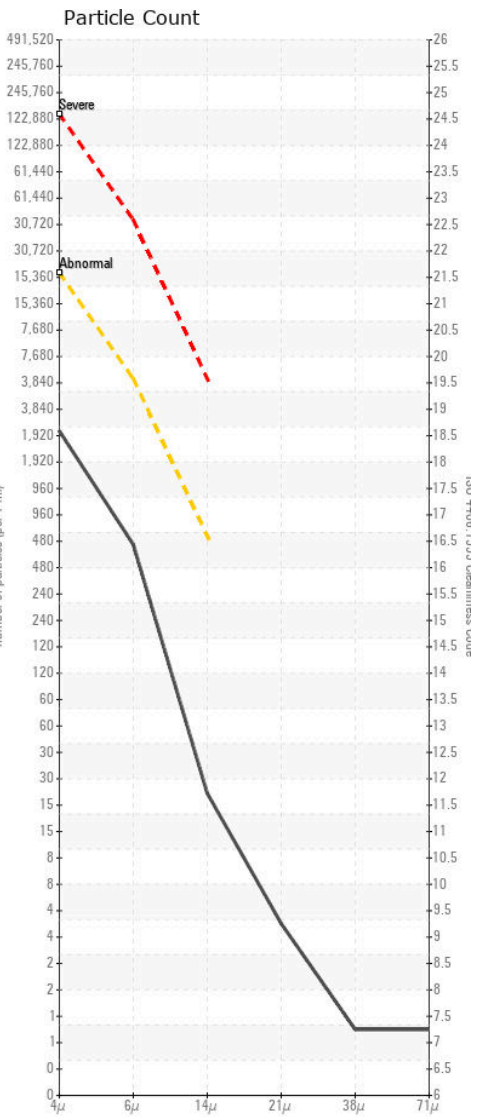
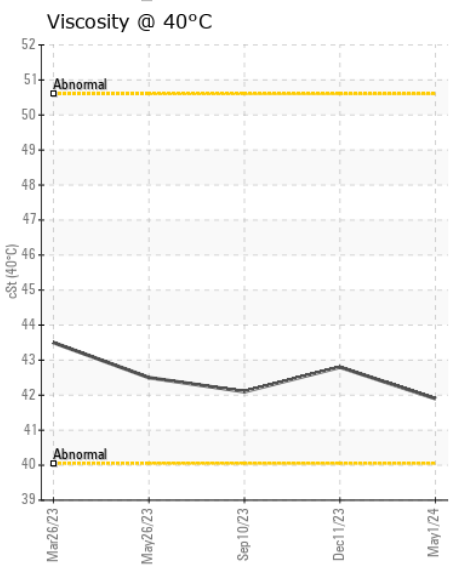
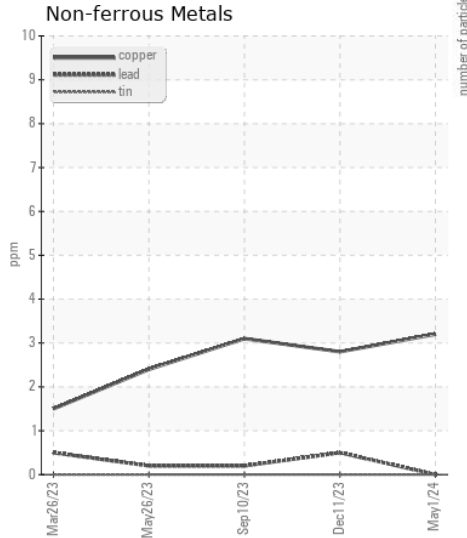
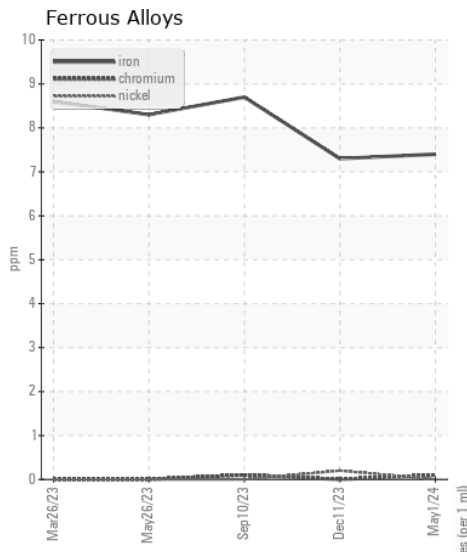
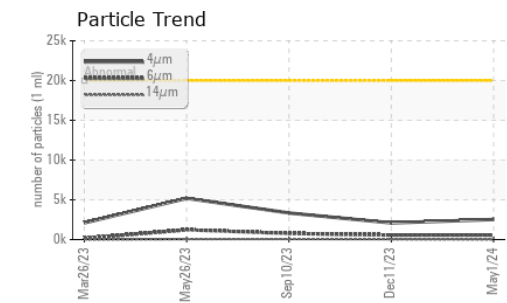
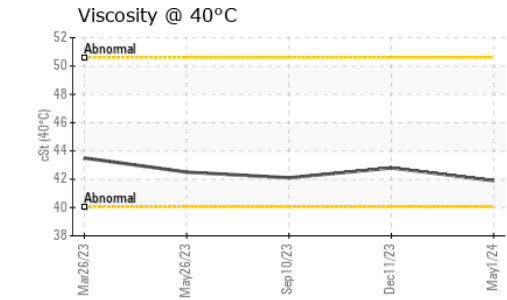
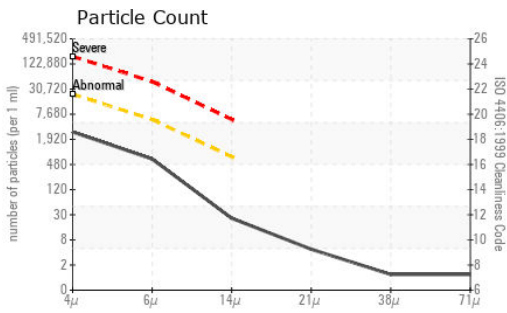
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>17	<b>2</b>	4	4
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>2525</b>	2094	3346
Particles >6µm		ASTM D7647	>5000	<b>571</b>	570	769
Particles >14µm		ASTM D7647	>640	<b>22</b>	39	65
Particles >21µm		ASTM D7647	>160	<b>4</b>	9	21
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	1
Particles >71µm		ASTM D7647	>10	<b>1</b>	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>19/16/12</b>	18/16/12	19/17/13
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>2</b>	1	2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>35</b>	38	21
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>2</b>	2	3
Calcium	ppm	ASTM D5185(m)		<b>766</b>	800	1056
Phosphorus	ppm	ASTM D5185(m)		<b>554</b>	563	592
Zinc	ppm	ASTM D5185(m)		<b>627</b>	645	617
Sulfur	ppm	ASTM D5185(m)		<b>2063</b>	2131	2442
Visc @ 40°C	cSt	ASTM D7279(m)		<b>41.9</b>	42.8	42.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH **Received** : 02 May 2024  
**Lab Number** : 02632803 **Tested** : 03 May 2024  
**Unique Number** : 5773956 **Diagnosed** : 03 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

**D.P. Metal Inc.**  
 373A Chemin Grande-Ligne  
 Saint-Urbain Premier, QC  
 CA J0S 1Y0  
 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: (450)427-0506  
 F: