



# OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH30M 152436-1253**  
Component  
**Hydraulic System**  
Fluid  
**LIEBHERR HYDRAULIC HVI (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DJJ0017707</b>	DJJ0021914	---
Sample Date		Client Info		<b>05 Jul 2024</b>	11 Apr 2024	---
Machine Age	hrs	Client Info		<b>934</b>	530	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>N/A</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>18</b>	12	---
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>4	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>10	<b>4</b>	4	---
Tin	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

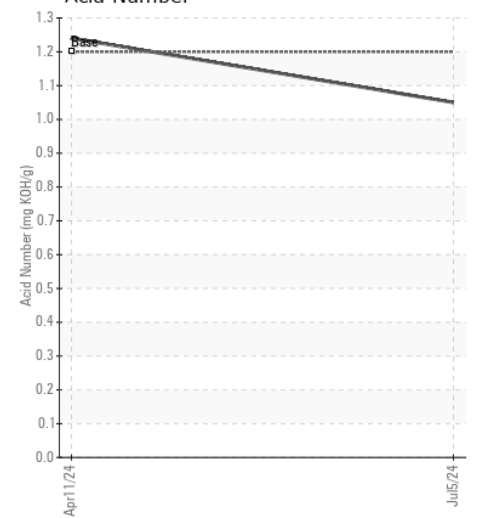
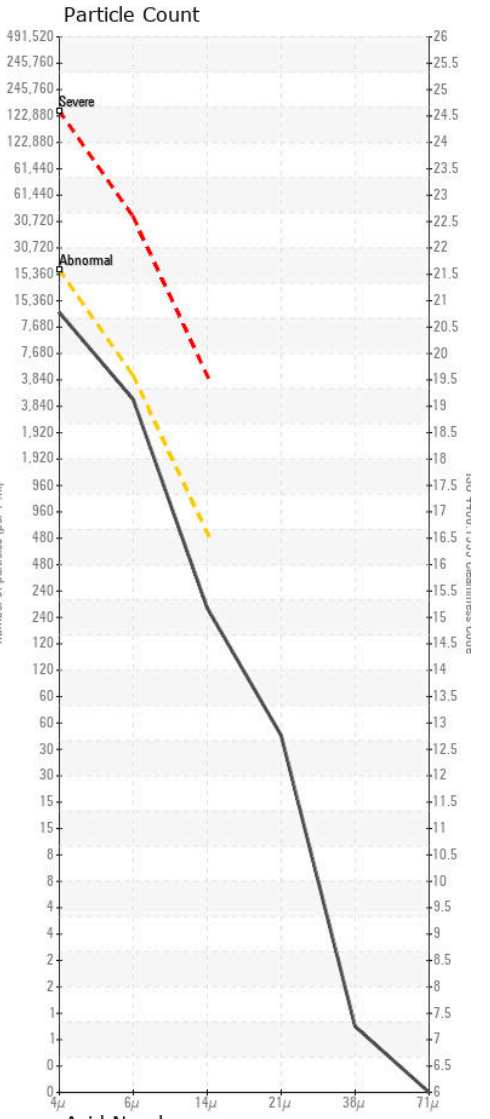
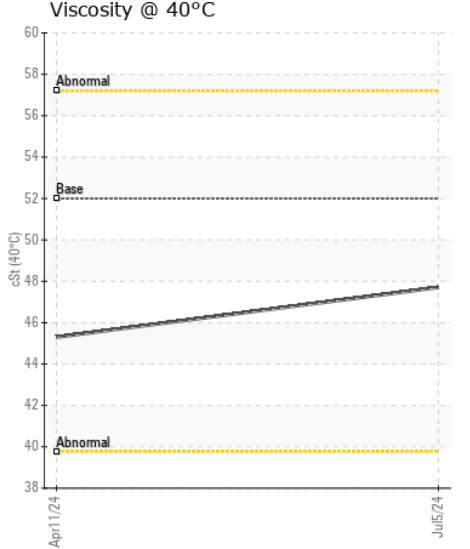
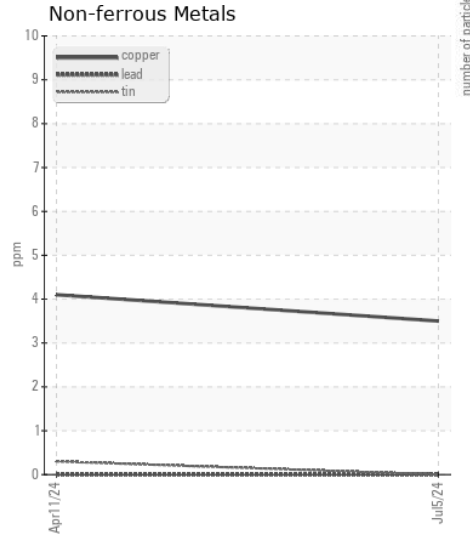
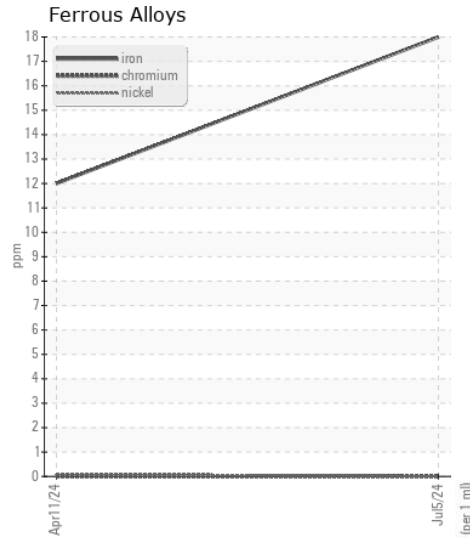
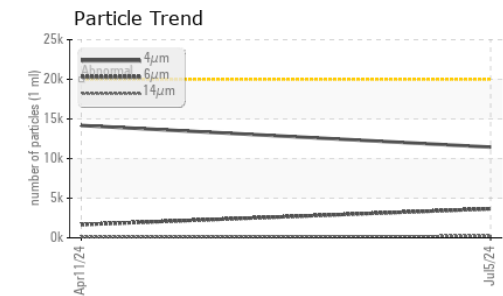
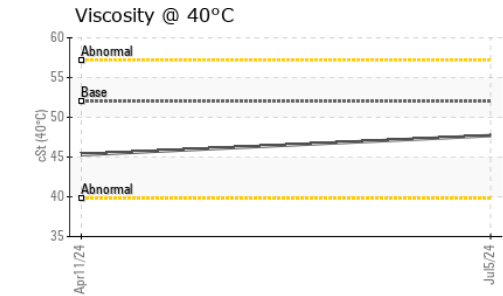
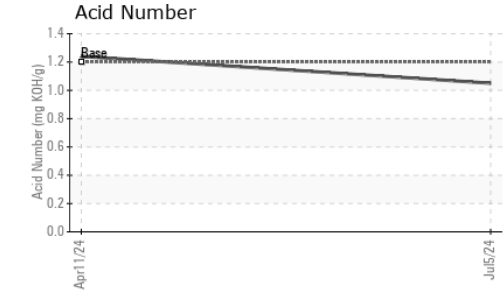
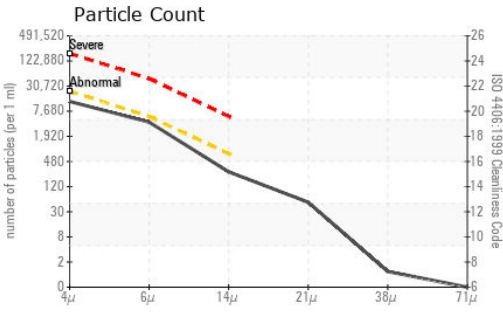
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>17	<b>2</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>20000	<b>11445</b>	14179	---
Particles >6µm		ASTM D7647	>5000	<b>3662</b>	1667	---
Particles >14µm		ASTM D7647	>640	<b>239</b>	92	---
Particles >21µm		ASTM D7647	>160	<b>45</b>	18	---
Particles >38µm		ASTM D7647	>40	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>21/19/15</b>	21/18/14	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>4</b>	4	---
Boron	ppm	ASTM D5185m		<b>0</b>	0	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	7	<b>6</b>	11	---
Calcium	ppm	ASTM D5185m	1500	<b>1203</b>	1331	---
Phosphorus	ppm	ASTM D5185m	750	<b>540</b>	628	---
Zinc	ppm	ASTM D5185m	820	<b>598</b>	717	---
Sulfur	ppm	ASTM D5185m	4000	<b>4180</b>	5033	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.2	<b>1.05</b>	1.24	---
Visc @ 40°C	cSt	ASTM D445	52	<b>47.7</b>	45.3	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0017707 **Received** : 12 Jul 2024  
**Lab Number** : 06234785 **Tested** : 15 Jul 2024  
**Unique Number** : 11123619 **Diagnosed** : 15 Jul 2024 - Wes Davis  
**Test Package** : MOBCE

**RECO EQUIPMENT INC**  
 8075 PRODUCTION DRIVE  
 FLORENCE, KY  
 US 41042  
 Contact: ALLEN BRAY  
 abray@recoequip.com  
 T:  
 F: (859)727-7974

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)