



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**LIEBHERR 1750 CR8253 (S/N 074-724)**  
 Component  
**Hydraulic System**  
 Fluid  
**ATF (285 GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0952146</b>	WC0704494	WC0401802
Sample Date		Client Info		<b>02 Jul 2024</b>	20 Jun 2022	06 Dec 2019
Machine Age	hrs	Client Info		<b>6071</b>	5792	3317
Oil Age	hrs	Client Info		<b>279</b>	843	0
Filter Age	hrs	Client Info		<b>279</b>	843	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>2</b>	<1	1
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>75	<b>3</b>	1	3
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<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

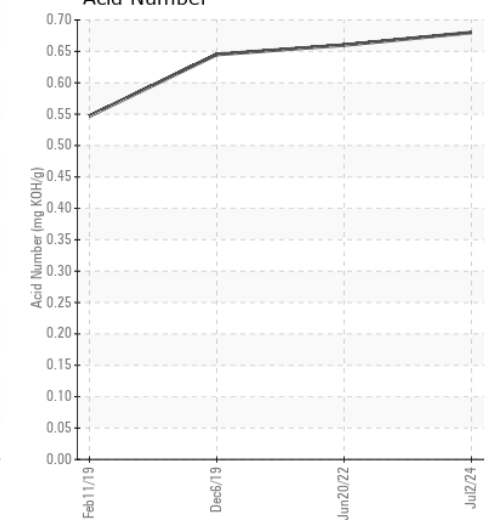
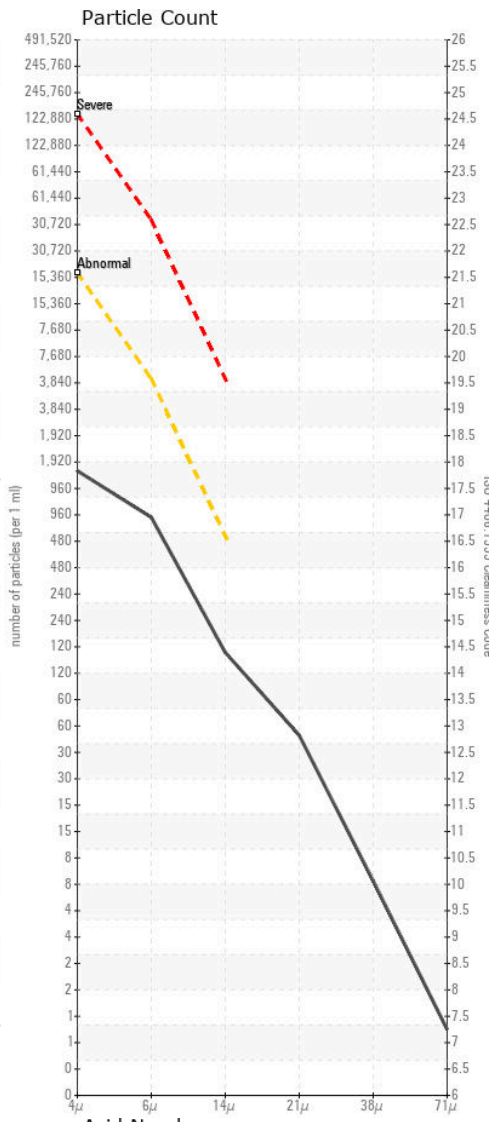
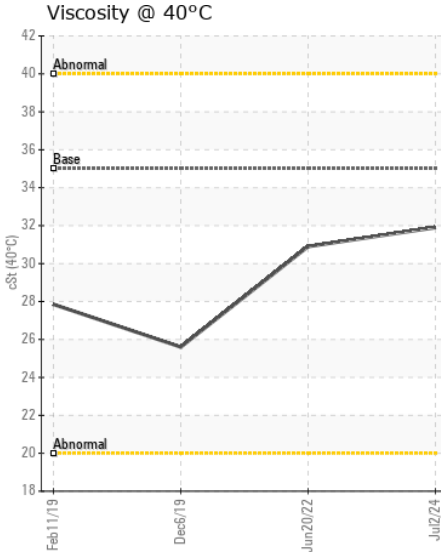
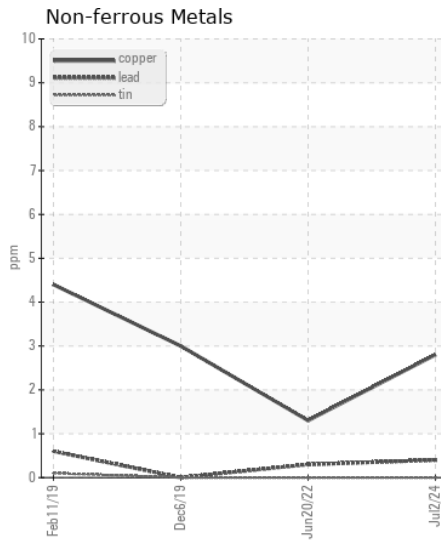
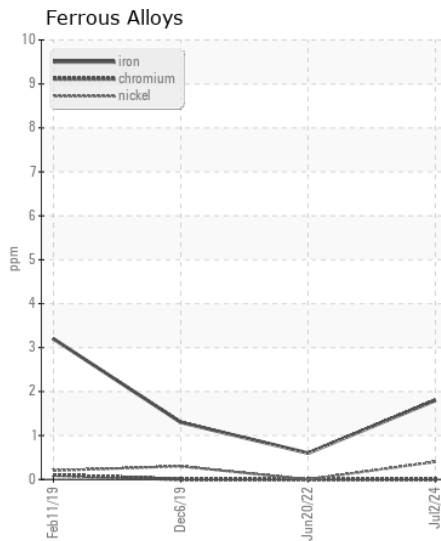
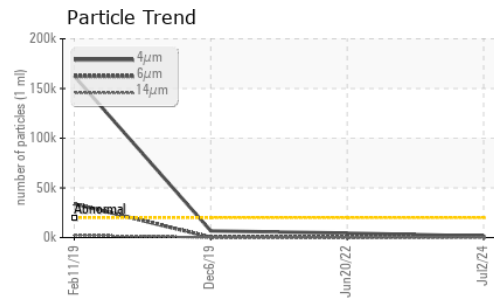
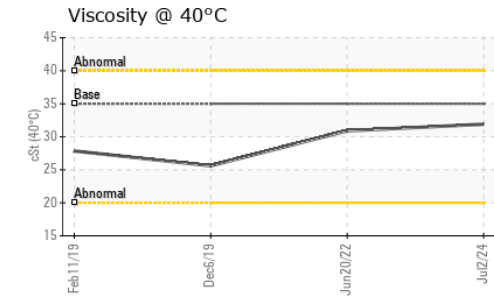
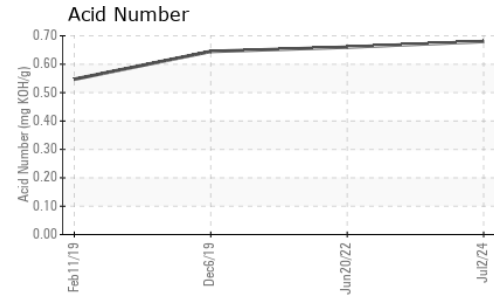
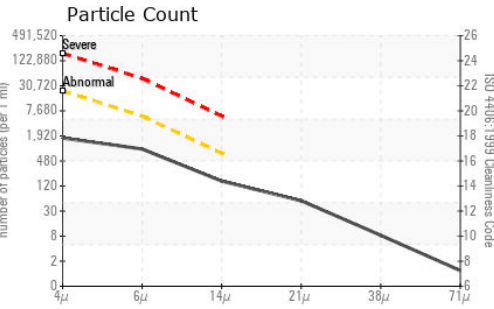
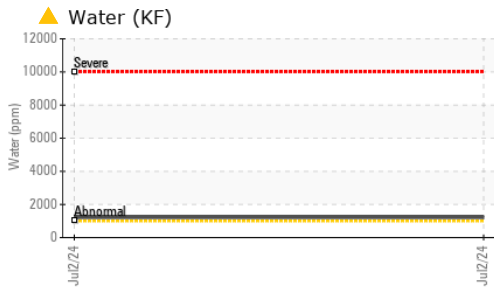
There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>20	<b>2</b>	1	6
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	0
Water	%	ASTM D6304	>0.1	<b>▲ 0.122</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	<b>▲ 1220</b>	---	---
Particles >4µm		ASTM D7647	>20000	<b>1496</b>	4491	● 6704
Particles >6µm		ASTM D7647	>5000	<b>815</b>	146	359
Particles >14µm		ASTM D7647	>640	<b>139</b>	16	17
Particles >21µm		ASTM D7647	>160	<b>47</b>	3	10
Particles >38µm		ASTM D7647	>40	<b>7</b>	0	3
Particles >71µm		ASTM D7647	>10	<b>1</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>18/17/14</b>	19/14/11	● 20/16/11
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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>0.2%</b>	NEG	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>2</b>	1	1
Boron	ppm	ASTM D5185m		<b>94</b>	94	94
Barium	ppm	ASTM D5185m		<b>0</b>	0	7
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>2</b>	<1	1
Calcium	ppm	ASTM D5185m		<b>102</b>	89	132
Phosphorus	ppm	ASTM D5185m		<b>235</b>	207	246
Zinc	ppm	ASTM D5185m		<b>58</b>	32	52
Sulfur	ppm	ASTM D5185m		<b>1133</b>	991	345
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.68</b>	0.66	0.645
Visc @ 40°C	cSt	ASTM D445	35.0	<b>31.9</b>	30.9	25.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0952146 **Received** : 05 Jul 2024  
**Lab Number** : 06229094 **Tested** : 10 Jul 2024  
**Unique Number** : 11112587 **Diagnosed** : 10 Jul 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: KF )

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)

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