



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**LIEBHERR**  
Machine Id  
**LIEBHERR LH50M 102002-1216**  
Component  
**Transmission**  
Fluid  
**VALVOLINE 15W40 (--- GAL)**

## RECOMMENDATION

The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0023740	LH0236554	LHMC133975
Sample Date		Client Info		02 Jul 2024	01 Sep 2022	24 Feb 2020
Machine Age	hrs	Client Info		12993	9562	4357
Oil Age	hrs	Client Info		0	500	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	N/A
Filter Changed		Client Info		Not Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	5	37	25
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>10	4	2	2
Lead	ppm	ASTM D5185m	>150	0	<1	<1
Copper	ppm	ASTM D5185m	>250	<1	138	66
Tin	ppm	ASTM D5185m	>5	0	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

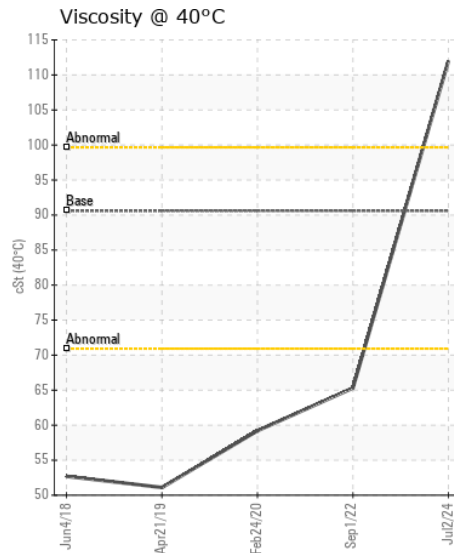
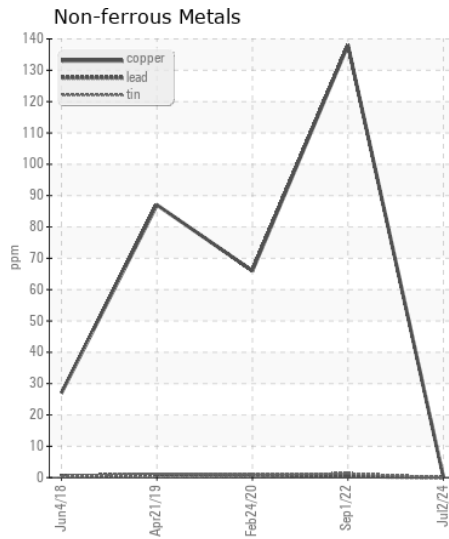
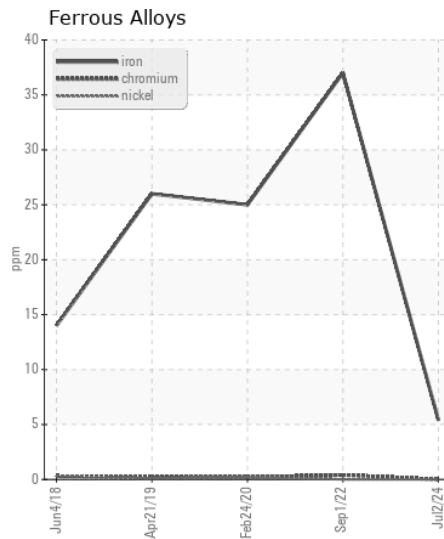
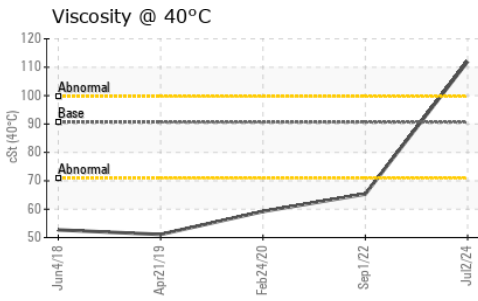
There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>15	13	5	4
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	▲ MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	9	14
Boron	ppm	ASTM D5185m	39	91	106	81
Barium	ppm	ASTM D5185m	1	0	0	<1
Molybdenum	ppm	ASTM D5185m	49	81	61	37
Manganese	ppm	ASTM D5185m	1	0	22	12
Magnesium	ppm	ASTM D5185m	616	41	151	247
Calcium	ppm	ASTM D5185m	1554	2416	2114	2207
Phosphorus	ppm	ASTM D5185m	899	1109	1010	977
Zinc	ppm	ASTM D5185m	1069	1326	1131	1024
Sulfur	ppm	ASTM D5185m	2624	5963	4761	5392
Visc @ 40°C	cSt	ASTM D445	90.6	112	65.3	59.2



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DJJ0023740  
**Lab Number** : 06232632  
**Unique Number** : 11116125  
**Test Package** : CONST

**Received** : 10 Jul 2024  
**Tested** : 11 Jul 2024  
**Diagnosed** : 12 Jul 2024 - Don Baldrige

**METAL RECYCLING SERVICES - MONROE**  
 150 S BIVENS RD  
 MONROE, NC  
 US 28112  
 Contact: Service Manager

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)

T:  
F: