



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR R938 050886-1650**  
Component  
**Splitter Box**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0267313</b>	LH0258965	LH0254075
Sample Date		Client Info		<b>19 Dec 2023</b>	09 Aug 2023	02 Apr 2023
Machine Age	hrs	Client Info		<b>2998</b>	1993	1018
Oil Age	hrs	Client Info		<b>0</b>	1993	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	SEVERE

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>31</b>	26	1062
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	15
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	>30	<b>2</b>	0	0
Copper	ppm	ASTM D5185m	>20	<b>4</b>	2	<1
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

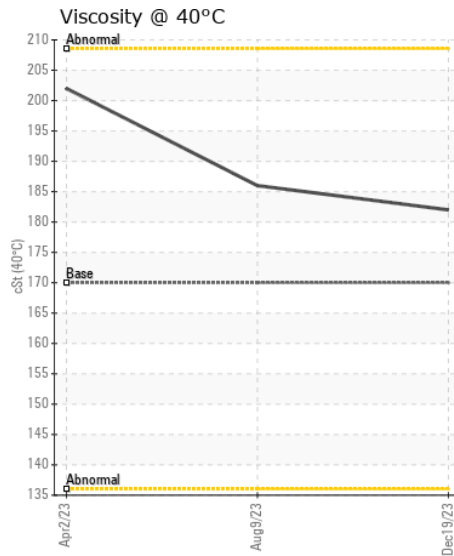
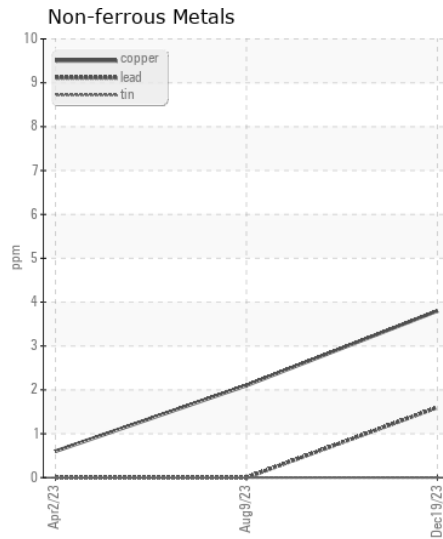
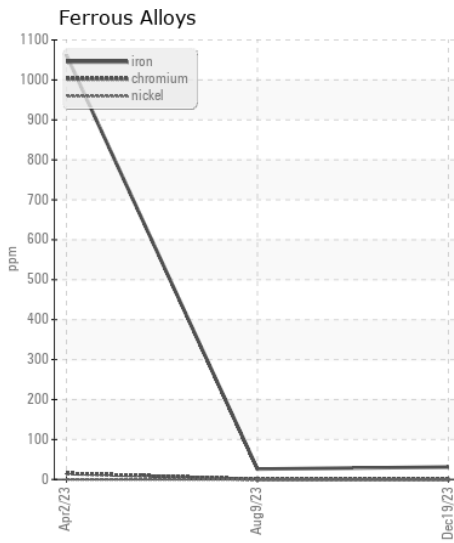
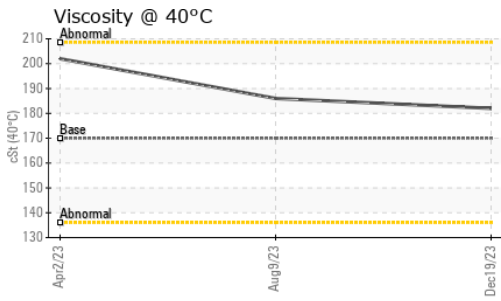
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>2</b>	<1	7
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
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	0.2%

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>25	<b>4</b>	4	2
Boron	ppm	ASTM D5185m	0	<b>0</b>	0	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	3	4
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	0	<b>2</b>	2	10
Magnesium	ppm	ASTM D5185m	<1	<b>2</b>	4	4
Calcium	ppm	ASTM D5185m	<1	<b>73</b>	61	22
Phosphorus	ppm	ASTM D5185m	2143	<b>1622</b>	1451	1371
Zinc	ppm	ASTM D5185m	<1	<b>86</b>	67	28
Sulfur	ppm	ASTM D5185m	23468	<b>23052</b>	25447	24573
Visc @ 40°C	cSt	ASTM D445	170	<b>182</b>	186	202



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LH0267313  
**Lab Number** : 06060504  
**Unique Number** : 10831886  
**Test Package** : CONST

**M&F CONCRETE PRODUCTS CO**  
 4002 CATLETT RD  
 CATLETT, VA  
 US 20119  
 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)

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F: