



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(353412)**  
Machine Id  
**LIEBHERR R926 052980-1827**  
Component  
**Right Final Drive**  
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>LH0290895</b>	LH0274646	LH0247316
Sample Date		Client Info		<b>18 Jun 2024</b>	20 Sep 2023	03 Feb 2023
Machine Age	hrs	Client Info		<b>4979</b>	4068	2931
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>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

PQ		ASTM D8184*		<b>316</b>	---	54
Iron	ppm	ASTM D5185(m)	>500	<b>574</b>	423	893
Chromium	ppm	ASTM D5185(m)	>10	<b>8</b>	6	12
Nickel	ppm	ASTM D5185(m)	>10	<b>5</b>	2	4
Titanium	ppm	ASTM D5185(m)		<b>5</b>	<1	3
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	<b>91</b>	21	55
Lead	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

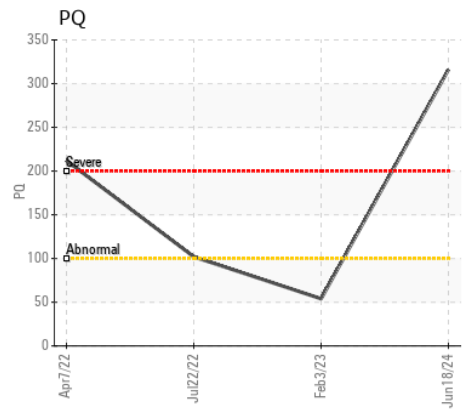
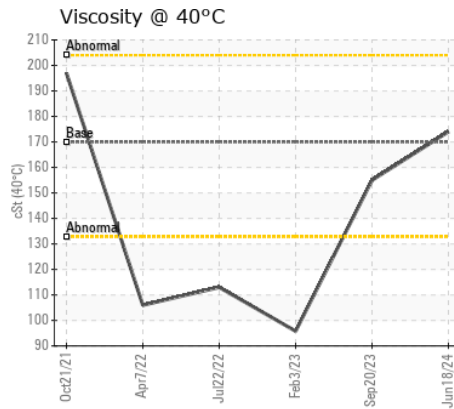
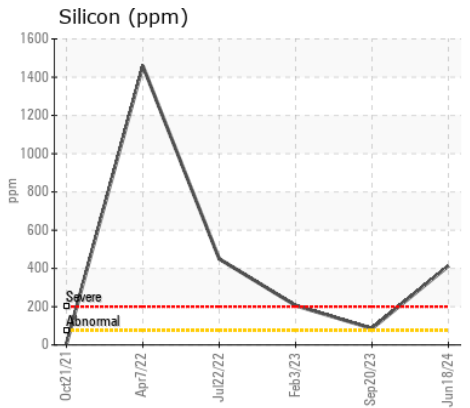
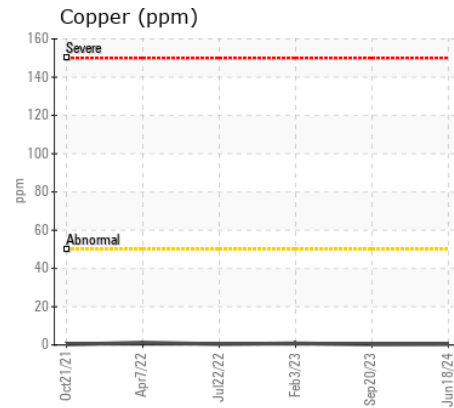
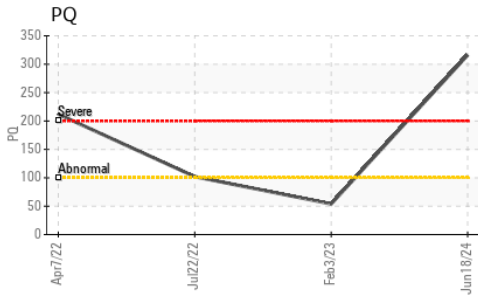
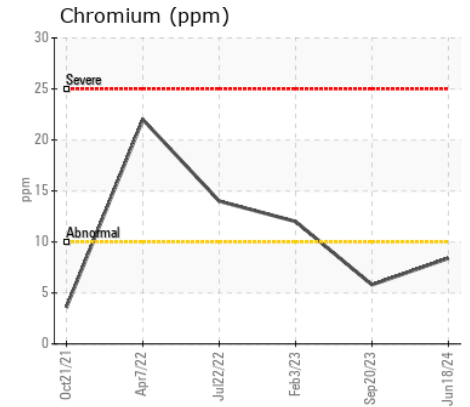
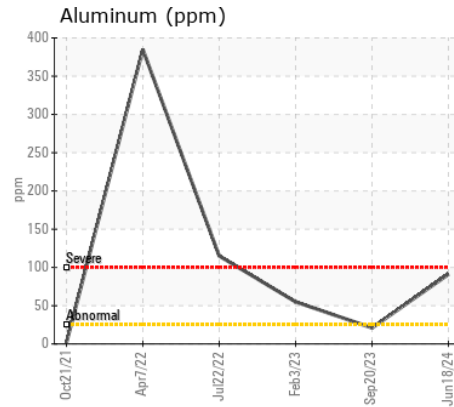
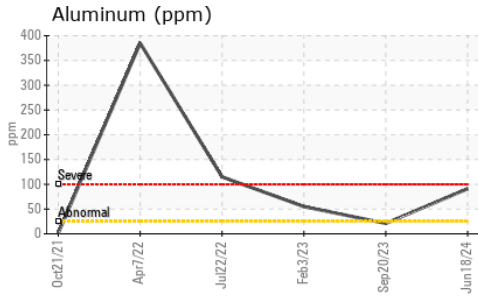
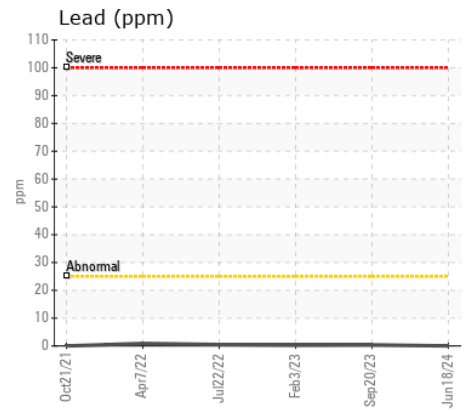
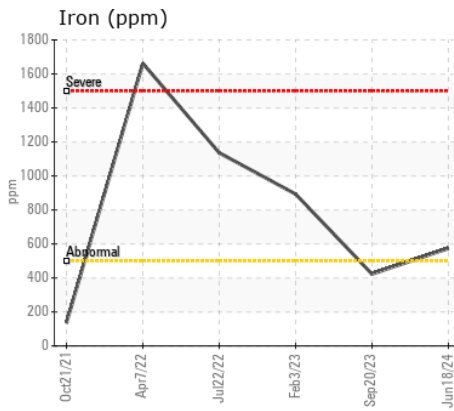
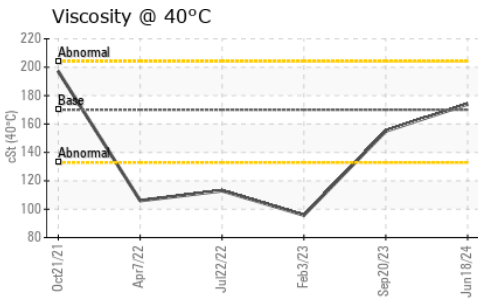
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	<b>413</b>	86	206
Potassium	ppm	ASTM D5185(m)	>20	<b>35</b>	8	19
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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*	>0.2	<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>26</b>	9	15
Boron	ppm	ASTM D5185(m)	0	<b>22</b>	42	254
Barium	ppm	ASTM D5185(m)	0	<b>2</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	<1
Manganese	ppm	ASTM D5185(m)	0	<b>6</b>	4	8
Magnesium	ppm	ASTM D5185(m)	<1	<b>38</b>	8	21
Calcium	ppm	ASTM D5185(m)	<1	<b>172</b>	41	84
Phosphorus	ppm	ASTM D5185(m)	2143	<b>2147</b>	2149	1378
Zinc	ppm	ASTM D5185(m)	<1	<b>13</b>	22	19
Sulfur	ppm	ASTM D5185(m)	23468	<b>24175</b>	24664	21393
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>174</b>	155	95.8



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0290895 **Received** : 20 Jun 2024  
**Lab Number** : 02643275 **Tested** : 20 Jun 2024  
**Unique Number** : 5800814 **Diagnosed** : 20 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: PQ )

**SL EXCAVATION INC.**  
 4626 COUNTY ROAD 29  
 ALMONTE, ON  
 CA K0A 1A0  
 Contact: Service Manager

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.

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F: