



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**LIEBHERR 117059**  
Component  
**Crowd Winch Drive**  
Fluid  
**GEAR OIL LS 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL LS 80W90. Please confirm.

### WEAR

All component wear rates are normal.

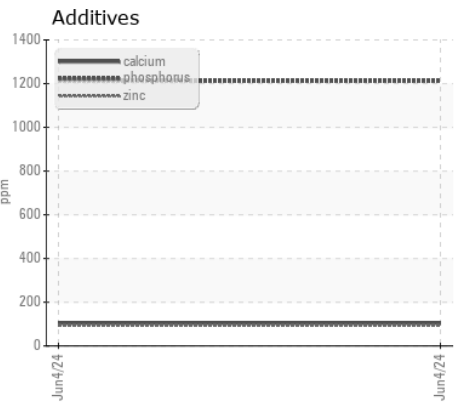
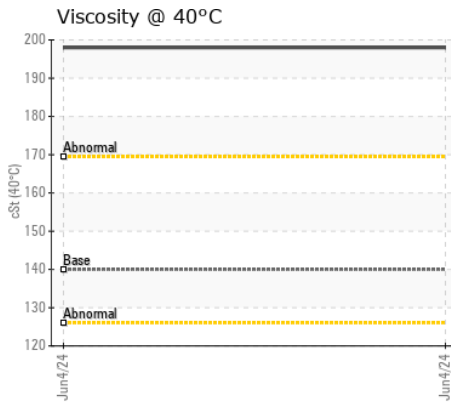
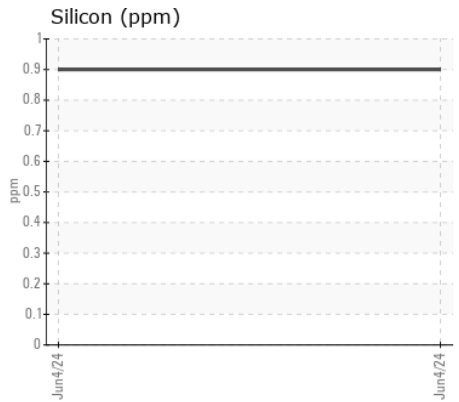
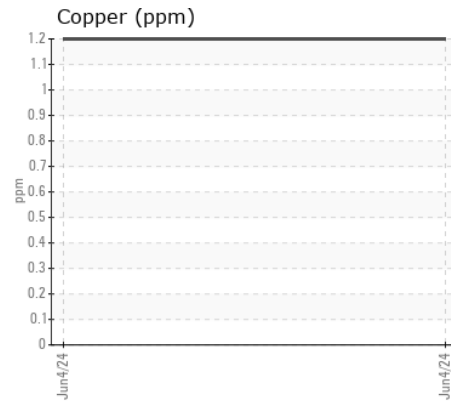
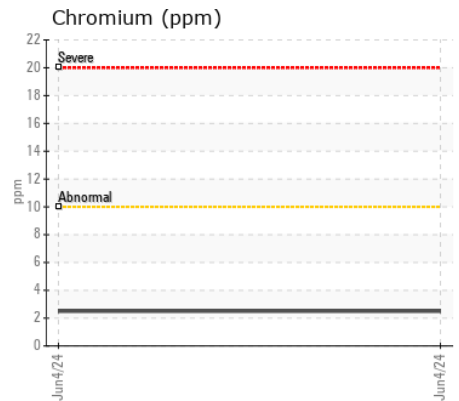
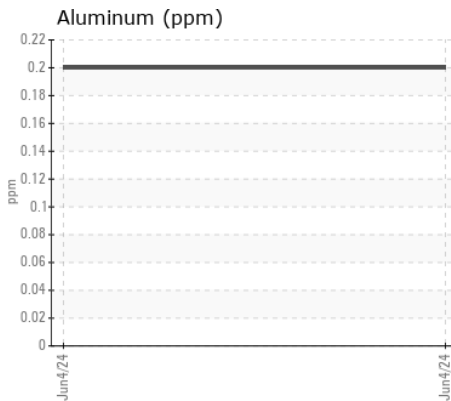
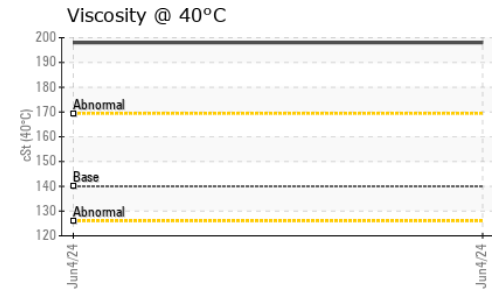
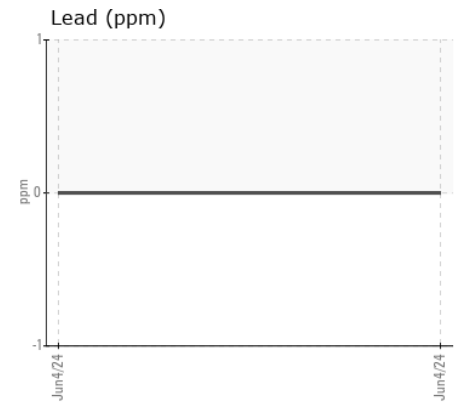
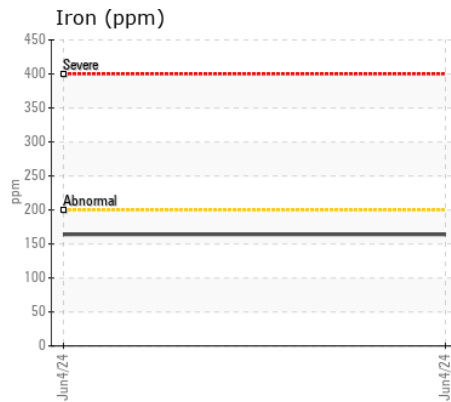
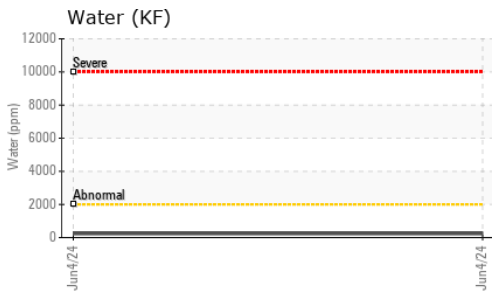
### CONTAMINATION

The water content is negligible. There is no indication of any contamination in the oil.

### FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0274602	---	---
Sample Date		Client Info		04 Jun 2024	---	---
Machine Age	hrs	Client Info		490	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				NORMAL	---	---
Iron	ppm	ASTM D5185(m)	>200	164	---	---
Chromium	ppm	ASTM D5185(m)	>10	2	---	---
Nickel	ppm	ASTM D5185(m)	>10	1	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)		<1	---	---
Lead	ppm	ASTM D5185(m)		0	---	---
Copper	ppm	ASTM D5185(m)		1	---	---
Tin	ppm	ASTM D5185(m)		0	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)		<1	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---
Water	%	ASTM D6304*	>0.2	0.024	---	---
ppm Water	ppm	ASTM D6304*	>2000	241	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	.2%	---	---
Sodium	ppm	ASTM D5185(m)		2	---	---
Boron	ppm	ASTM D5185(m)	150	<1	---	---
Barium	ppm	ASTM D5185(m)		1	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Manganese	ppm	ASTM D5185(m)		2	---	---
Magnesium	ppm	ASTM D5185(m)	10	3	---	---
Calcium	ppm	ASTM D5185(m)	70	104	---	---
Phosphorus	ppm	ASTM D5185(m)	2000	1212	---	---
Zinc	ppm	ASTM D5185(m)	50	93	---	---
Sulfur	ppm	ASTM D5185(m)	20000	24812	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	140	198	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0274602 **Received** : 05 Jun 2024  
**Lab Number** : 02639982 **Tested** : 06 Jun 2024  
**Unique Number** : 5789144 **Diagnosed** : 06 Jun 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: KF )

**ASTRO SHORING**  
 645 CORONATION DRIVE  
 SCARBOROUGH, ON  
 CA M1E 2K4  
 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.

T:  
F: