



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**SOLETANCHE**  
Machine Id  
**LIEBHERR HS8100 186028**  
Component  
**Right Swing Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. **DISCLAIMER:** Interpretation of laboratory tests is based on sample, as received from client. Source of sample and sampling technique cannot be verified.

### WEAR

All component wear rates are normal.

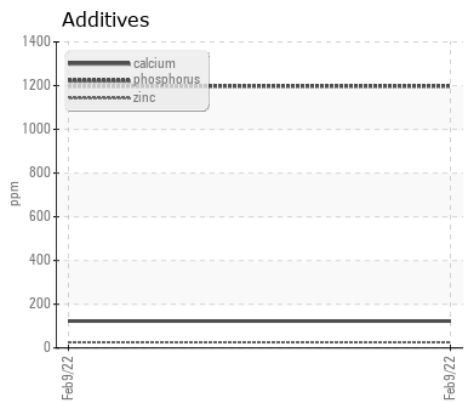
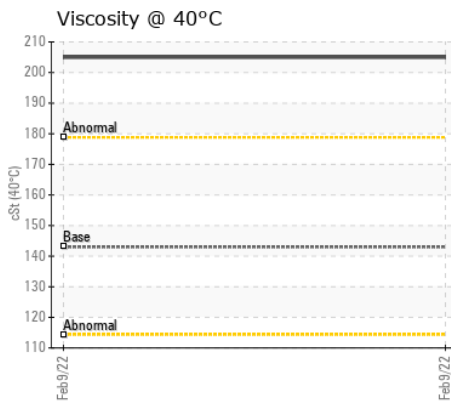
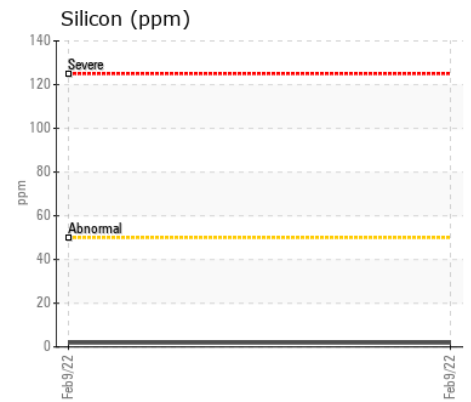
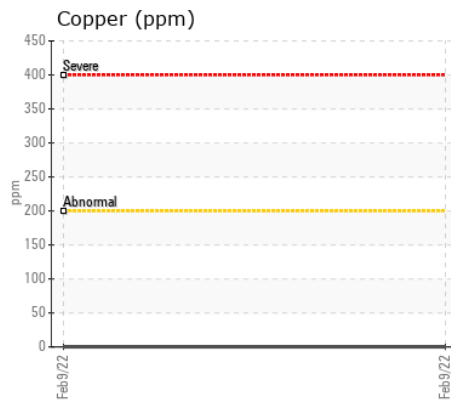
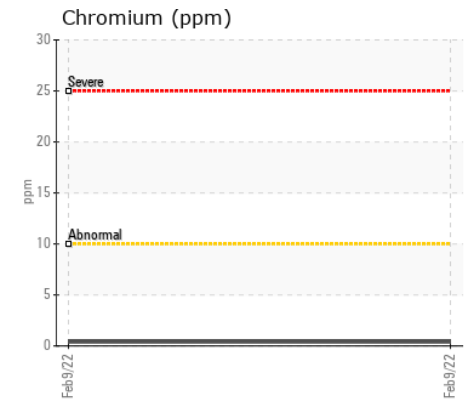
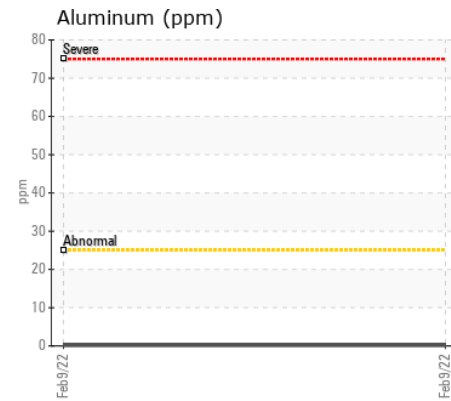
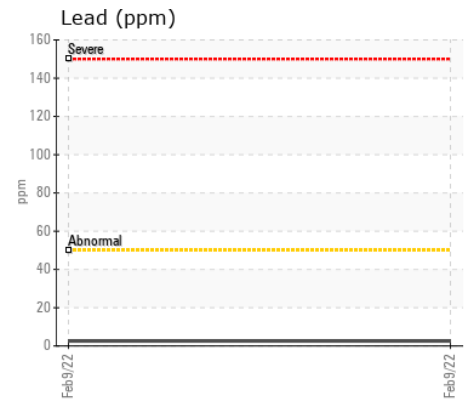
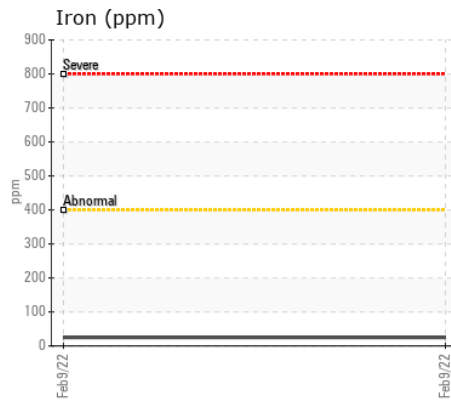
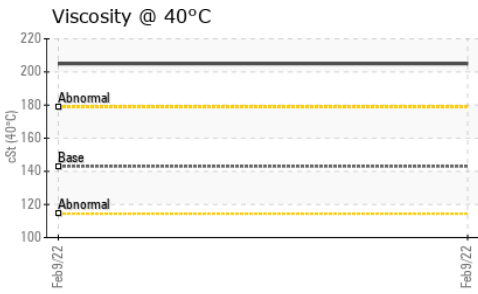
### CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0192764	---	---
Sample Date		Client Info		09 Feb 2022	---	---
Machine Age	hrs	Client Info		541	---	---
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				ABNORMAL	---	---
Iron	ppm	ASTM D5185(m)	>400	25	---	---
Chromium	ppm	ASTM D5185(m)	>10	<1	---	---
Nickel	ppm	ASTM D5185(m)		<1	---	---
Titanium	ppm	ASTM D5185(m)		2	---	---
Silver	ppm	ASTM D5185(m)		0	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<1	---	---
Lead	ppm	ASTM D5185(m)	>50	3	---	---
Copper	ppm	ASTM D5185(m)	>200	<1	---	---
Tin	ppm	ASTM D5185(m)	>10	<1	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---
Silicon	ppm	ASTM D5185(m)	>50	2	---	---
Potassium	ppm	ASTM D5185(m)	>20	1	---	---
Water		WC Method	>0.2	NEG	---	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	▲ HEAVY	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Sodium	ppm	ASTM D5185(m)	>170	3	---	---
Boron	ppm	ASTM D5185(m)	400	1	---	---
Barium	ppm	ASTM D5185(m)	200	2	---	---
Molybdenum	ppm	ASTM D5185(m)	12	<1	---	---
Manganese	ppm	ASTM D5185(m)		<1	---	---
Magnesium	ppm	ASTM D5185(m)	12	<1	---	---
Calcium	ppm	ASTM D5185(m)	150	123	---	---
Phosphorus	ppm	ASTM D5185(m)	1650	1198	---	---
Zinc	ppm	ASTM D5185(m)	125	26	---	---
Sulfur	ppm	ASTM D5185(m)	22500	25926	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	143	205	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0192764 **Received** : 15 Feb 2022  
**Lab Number** : 02472270 **Tested** : 18 Feb 2022  
**Unique Number** : 5357193 **Diagnosed** : 18 Feb 2022 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Bottom, BottomAnalysis, FILTERPATCH )

**SOLETANCHE BACHY CANADA**  
 3 STUDEBAKER PLACE  
 HAMILTON, ON  
 CA L8L 0C8  
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 T: (905)528-7924  
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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.