

PROBLEM SUMMARY

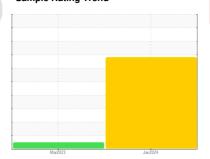
Sample Rating Trend

DIRT

LIEBHERR LR-1400 CR-4404

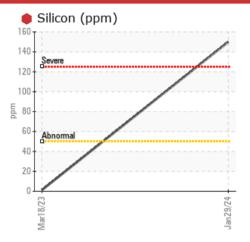
Right Swing Drive

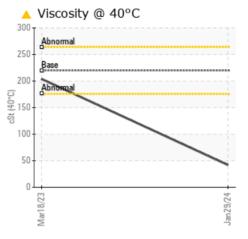
GEAR OIL ISO 220 (--- GAL)

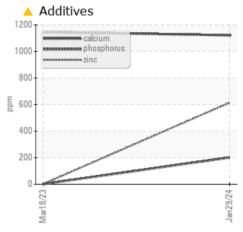




COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	
Silicon	ppm	ASTM D5185m	>50	150	1	

Customer Id: BUCWILTX **Sample No.:** WC0893052 Lab Number: 06075161 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Resample			?	We recommend an early resample to monitor this condition.	
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.	

HISTORICAL DIAGNOSIS

18 Mar 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

LIEBHERR LR-1400 CR-4404

Right Swing Drive

GEAR OIL ISO 220 (--- GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material.

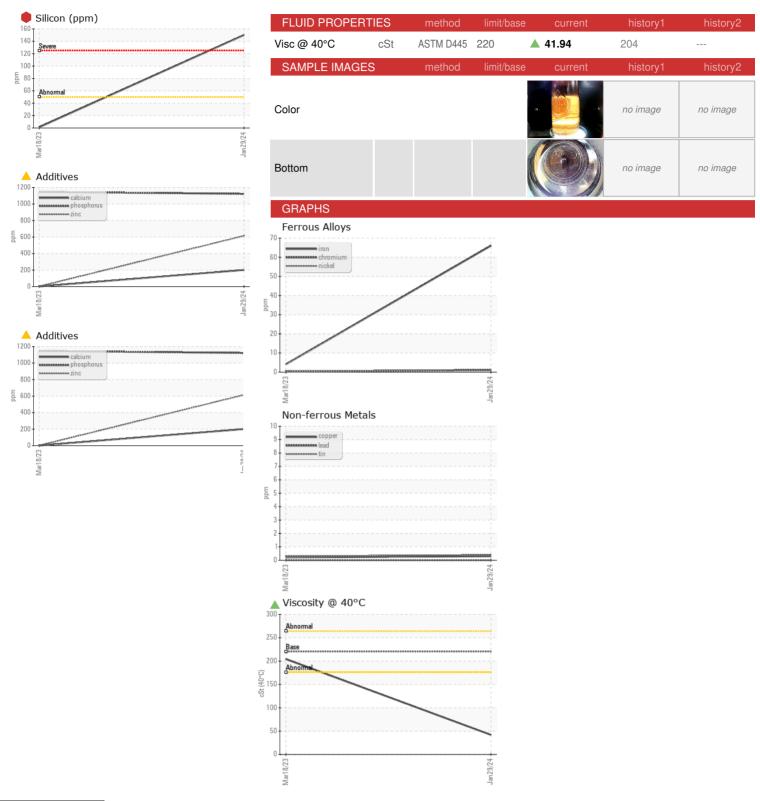
▲ Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

			Mar2023	Jan 2024		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0893052	WC0720770	
Sample Date		Client Info		29 Jan 2024	18 Mar 2023	
Machine Age	hrs	Client Info		0	4781	
Oil Age	hrs	Client Info		0	1000	
Oil Changed		Client Info		N/A	Changed	
Sample Status				SEVERE	NORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	66	4	
Chromium	ppm	ASTM D5185m	>10	1	<1	
Nickel	ppm	ASTM D5185m	>10	<1	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	4	2	
Lead	ppm	ASTM D5185m	>50	0	0	
Copper	ppm	ASTM D5185m	>200	<1	<1	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		<1	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	15	15	
Barium	ppm	ASTM D5185m	15	0	0	
Molybdenum	ppm	ASTM D5185m	15	2	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	50	91	<1	
Calcium	ppm	ASTM D5185m	50	201	1	
Phosphorus	ppm	ASTM D5185m	350	1122	1147	
Zinc	ppm	ASTM D5185m	100	614	2	
Sulfur	ppm	ASTM D5185m	12500	▲ 3090	1439	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	150	1	
Sodium	ppm	ASTM D5185m		9	3	
Potassium	ppm	ASTM D5185m	>20	7	<1	
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	



OIL ANALYSIS REPORT







Certificate L2367

Laboratory

Sample No.

: WC0893052 Lab Number : 06075161 Unique Number : 10857252 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 Jan 2024 **Tested**

Diagnosed

: 02 Feb 2024 : 05 Feb 2024 - Jonathan Hester

BUCKNER - WILLIS 18123 HWY 75 NORTH WILLIS, TX

US 77378 Contact: JOHN HAWKINS

johnh@bucknercompanies.com T:

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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