CONST

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
LIEBHERR 1400 CR4405 (S/N 0015-108)
Component
Left Swing Drive
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

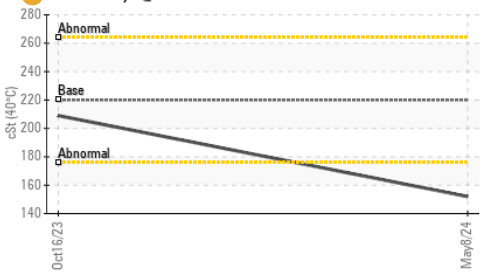
There is no indication of any contamination in the oil.

FLUID CONDITION

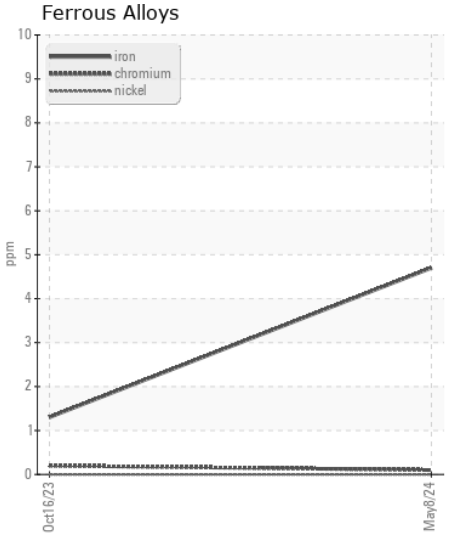
The oil viscosity is lower than normal. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935929	WC0823356	---
Sample Date		Client Info		08 May 2024	16 Oct 2023	---
Machine Age	hrs	Client Info		9661	9409	---
Oil Age	hrs	Client Info		252	1000	---
Filter Age	hrs	Client Info		0	1000	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				ATTENTION	NORMAL	---
Iron	ppm	ASTM D5185m	>400	5	1	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	0	3	---
Lead	ppm	ASTM D5185m	>50	0	0	---
Copper	ppm	ASTM D5185m	>200	0	<1	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>50	3	0	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>0.2	NEG	NEG	---
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	---
Sodium	ppm	ASTM D5185m		<1	3	---
Boron	ppm	ASTM D5185m	50	91	24	---
Barium	ppm	ASTM D5185m	15	<1	<1	---
Molybdenum	ppm	ASTM D5185m	15	4	0	---
Manganese	ppm	ASTM D5185m		0	0	---
Magnesium	ppm	ASTM D5185m	50	100	<1	---
Calcium	ppm	ASTM D5185m	50	910	3	---
Phosphorus	ppm	ASTM D5185m	350	567	980	---
Zinc	ppm	ASTM D5185m	100	437	0	---
Sulfur	ppm	ASTM D5185m	12500	3928	2011	---
Visc @ 40°C	cSt	ASTM D445	220	152	209	---

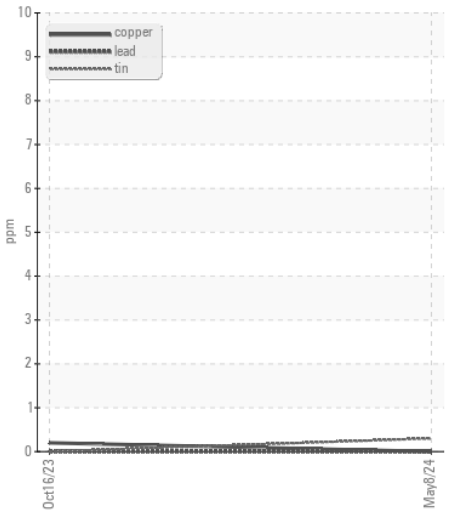
Viscosity @ 40°C



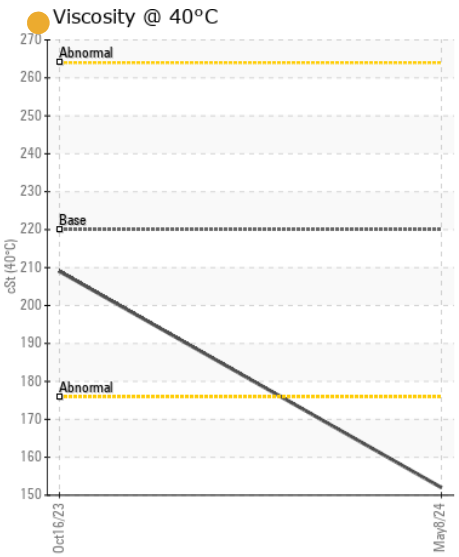
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: WC0935929	**Received**	: 13 May 2024
Lab Number	: 06177971	**Tested**	: 14 May 2024
Unique Number	: 11029297	**Diagnosed**	: 15 May 2024 - Sean Felton
Test Package	: CONST		

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)

BUCKNER HEAVY LIFT
4732 NC 54 EAST
GRAHAM, NC
US 27253-9215
Contact: MICHAEL LAWSON
michaell@bucknercompanies.com
T: (336)376-8888
F: (336)376-4090