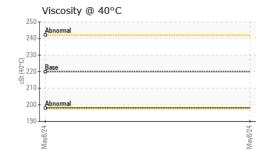
**WEAR** CONTAMINATION **FLUID CONDITION** 

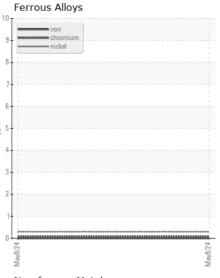
**NORMAL NORMAL** NORMAL

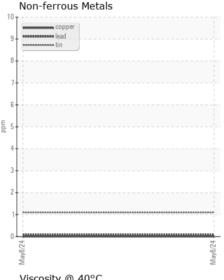
## LIEBHERR 1400 CR4405 - 4.2 (S/N 0015-108) Component Winch

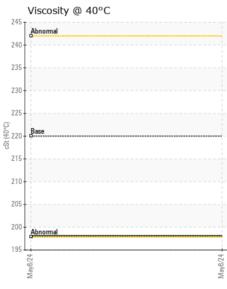
Fluid
GEAR OIL ISO 220 ( CAL)

RECOMMENDATION	Toct	UOM	Mothad	Limit/Ahn	Current	History	Hictory.
Resample at the next service interval to monitor.	Test	UUIVI	Method	Limit/Abn		History1	History
	Sample Number		Client Info		WC0935927		
	Sample Date	lawa			08 May 2024		
	Machine Age	hrs	Client Info		9661		
	Oil Age	hrs	Client Info		252		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>150	0		
	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	>10	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	<u> </u>	<1		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m	_	0		
	Tin	ppm	ASTM D5185m	<b>&gt;</b> 00	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
<u></u>		Scalai	Visuai	INOINL	HONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	<1		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	4		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		47		
	Barium	ppm	ASTM D5185m	15	<1		
	Molybdenum	ppm	ASTM D5185m	15	0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m	50	3		
	Calcium	ppm	ASTM D5185m	50	6		
	Phosphorus	ppm	ASTM D5185m	350	1176		
	Zinc	ppm	ASTM D5185m	100	0		
	Sulfur	ppm	ASTM D5185m	12500	6311		
	Visc @ 40°C	cSt	ASTM D445	220	198		











Certificate L2367

Laboratory Sample No.

Lab Number : 06177915 Unique Number : 11029241 Test Package : CONST

: WC0935927

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

: 14 May 2024 Diagnosed : 15 May 2024 - Sean Felton

: 13 May 2024

**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

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)