WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

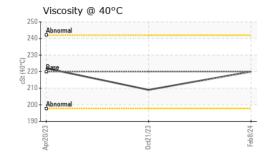
Machine Id

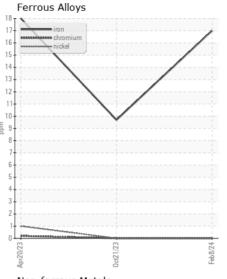
## LIEBHERR LTR1100 HC1110 (S/N 97351)

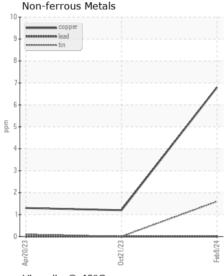
Component

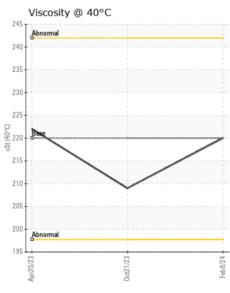
1 Winch

RECOMMENDATION	Toot	LIONA	Mother	Limit/Ale	Comment	Lliotomid	Lliotanio
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0873442	WC0833279	WC074660
	Sample Date	lawa	Client Info		08 Feb 2024	21 Oct 2023	
	Machine Age	hrs	Client Info		11988	11669	11025
	Oil Age	hrs	Client Info		0	0	913
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ATTENTIC
WEAR	Iron	ppm	ASTM D5185m	>150	17	10	18
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	<1
	Nickel	ppm	ASTM D5185m		0	0	1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>5	0	<1	<1
	Lead	ppm	ASTM D5185m	>15	0	0	0
	Copper	ppm	ASTM D5185m	>80	7	1	1
	Tin	ppm	ASTM D5185m		2	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NON
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	3	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	2	3
	Water	1-1-	WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	LIGHT	LIGHT	MODE
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NON
	Appearance	scalar	*Visual	NORML	NORML	NORML	▲ SOLII
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	1
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	50	9	0	1
	Barium	ppm	ASTM D5185m	15	0	0	0
	Molybdenum	ppm	ASTM D5185m	15	0	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	50	0	0	2
	Calcium	ppm	ASTM D5185m	50	0	7	3
	Phosphorus	ppm	ASTM D5185m	350	404	439	404
	Zinc	ppm	ASTM D5185m	100	18	34	25
	Sulfur	ppm	ASTM D5185m	12500	5491	6002	5371











Certificate L2367

Laboratory Sample No.

Lab Number : 06086771 Unique Number : 10874216

: WC0873442 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Feb 2024 **Tested** : 13 Feb 2024

Diagnosed : 13 Feb 2024 - Wes Davis **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)