

#### Machine Id LIEBHERR 1400 CR4415 - 4.1 (S/N 074-414) Component Winch Fluid GEAR OIL ISO 220 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

### **WEAR**

All component wear rates are normal.

# CONTAMINATION

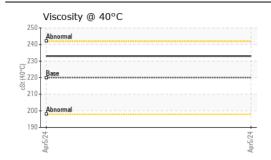
There is no indication of any contamination in the oil.

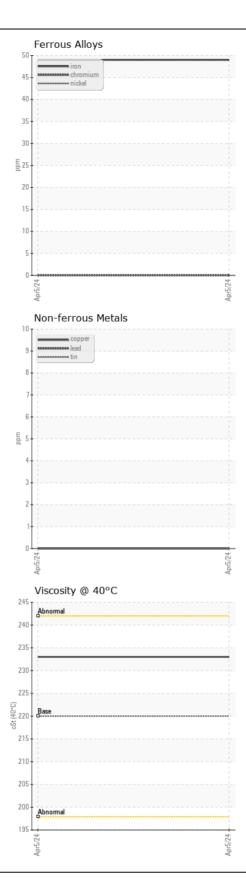
# **FLUID CONDITION**

The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0873457		
Sample Date		Client Info		05 Apr 2024		
Machine Age	hrs	Client Info		11100		
Oil Age	hrs	Client Info		1000		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Filter Changed		Client Info		Changed		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185m	>150	49		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	-	0		
Aluminum	ppm	ASTM D5185m	>5	0		
Lead	ppm	ASTM D5185m	>15	0		
Copper	ppm	ASTM D5185m	>80	0		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	ppm	ASTM D5185m	>25	12		
Potassium	ppm	ASTM D5185m	>20	<1		
Water		WC Method	>0.2	NEG		
Silt	scalar	*Visual	NONE	MODER		
Debris	scalar	*Visual	NONE	NONE		
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 D5185m		<1		
Boron	ppm	ASTM D5185m	50	0		
Barium	ppm	ASTM D5185m	15	0		
Molybdenum	ppm	ASTM D5185m	15	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	50	0		
Coloium	ppm	ASTM D5185m	50	4		
Calcium			250	077		
Phosphorus	ppm	ASTM D5185m	350	277		
	ppm ppm	ASTM D5185m ASTM D5185m	100	3		
Phosphorus						

Contact/Location: MICHAEL LAWSON - BUCGRA





Received

Diagnosed

Tested



**BUCKNER HEAVY LIFT** : WearCheck USA - 501 Madison Ave., Cary, NC 27513 4732 NC 54 EAST : 11 Apr 2024 GRAHAM, NC : 12 Apr 2024 : 16 Apr 2024 - Jonathan Hester US 27253-9215 Contact: MICHAEL LAWSON michaell@bucknercompanies.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)376-8888 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)376-4090

Certificate L2367

Laboratory

Sample No.

Lab Number : 06146783

Unique Number : 10976861

Test Package : CONST

: WC0873457

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact/Location: MICHAEL LAWSON - BUCGRA Page 2 of 2