

Machine Id **CR1230 - 2** Component **Rear Winch** Fluid **GEAR OIL ISO 220 (--- GAL)**

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

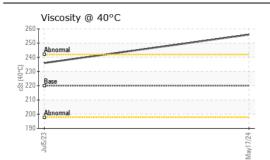
There is no indication of any contamination in the oil.

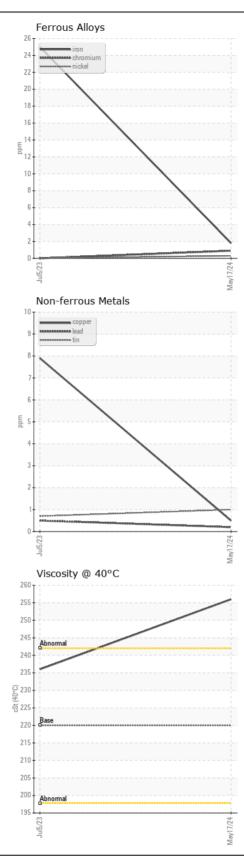
FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0922917	WC0823534	
Sample Date		Client Info		17 May 2024	05 Jul 2023	
Machine Age	hrs	Client Info		2146	1735	
Oil Age	hrs	Client Info		411	1735	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status			NORMAL	NORMAL		
			150	•	05	
Iron	ppm	ASTM D5185m	>150	2	25	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	-	<1	0	
Aluminum	ppm	ASTM D5185m	>5	9	<1	
Lead	ppm	ASTM D5185m	>15	<1	<1	
Copper	ppm	ASTM D5185m	>80	<1	8	
Tin	ppm	ASTM D5185m		1	<1	
Vanadium	ppm	ASTM D5185m		1	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	2	<1	
Potassium	ppm	ASTM D5185m	>20	9	4	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	LIGHT	
Debris	scalar	*Visual	NONE			
Sand/Dirt		Viodal	NONE	NONE	NONE	
Oana/Dirt	scalar	*Visual	NONE	NONE NONE	NONE NONE	
Appearance	scalar scalar					
		*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual *Visual	NONE NORML	NONE	NONE	
Appearance Odor Emulsified Water	scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NORML NORML	NONE NORML NORML NEG	NONE NORML NORML NEG	
Appearance Odor Emulsified Water Sodium	scalar scalar scalar ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NONE NORML NORML >0.2	NONE NORML NORML NEG 30	NONE NORML NEG 3	
Appearance Odor Emulsified Water Sodium Boron	scalar scalar scalar ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m	NORML NORML >0.2	NONE NORML NORML NEG 30 0	NONE NORML NORML NEG 3 7	
Appearance Odor Emulsified Water Sodium Boron Barium	scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15	NONE NORML NORML NEG 30 0 0	NONE NORML NEG 3 7 0	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar scalar scalar ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NORML NORML >0.2	NONE NORML NEG 30 0 0 <1	NONE NORML NEG 3 7 0 0	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar scalar scalar ppm ppm ppm ppm	*Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15	NORML NORML NEG 30 0 2 1 <1	NONE NORML NEG 3 7 0 0 2	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar scalar ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15 50	NORML NORML NEG 30 0 0 <1 <1 <1	NONE NORML NEG 3 7 0 0 0 <1 0	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15 50 50	NONE NORML NORML NEG 30 0 0 <1 <1 <1 <1 <1 <1 0	NONE NORML NEG 3 7 0 0 0 <1 0 8	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15 50 50 50 350	NONE NORML NORML NEG 30 0 0 <1 <1 <1 <1 <1 0 25	NONE NORML NEG 3 7 0 0 0 <1 0 0 8 44	
Appearance Odor Emulsified Water Sodium Boron Barium Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15 50 50 50 350 350 100	NONE NORML NORML NEG 30 0 0 <1 <1 <1 <1 <1 0 25 0	NONE NORML NEG 3 7 0 0 0 41 0 8 8 44 8	
Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar scalar ppm ppm ppm ppm ppm ppm ppm	*Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	NONE NORML NORML >0.2 50 15 15 50 50 50 350	NONE NORML NORML NEG 30 0 0 <1 <1 <1 <1 <1 0 25	NONE NORML NEG 3 7 0 0 0 <1 0 0 8 44	

Contact/Location: MICHAEL LAWSON - BUCGRA





: WearCheck USA - 501 Madison Ave., Cary, NC 27513 **BUCKNER HEAVY LIFT** : WC0922917 Received : 23 May 2024 4732 NC 54 EAST Tested : 25 May 2024 GRAHAM, NC Diagnosed : 28 May 2024 - Sean Felton US 27253-9215 Contact: MICHAEL LAWSON To discuss this sample report, contact Customer Service at 1-800-237-1369. 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



Laboratory

Sample No.

Lab Number : 06189619

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