

# WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

#### Machine Id CR1208 Component 1 Winch Fluid GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### WEAR

All component wear rates are normal.

### CONTAMINATION

There is no indication of any contamination in the oil.

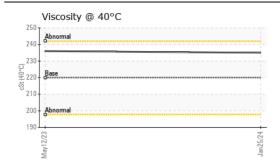
## FLUID CONDITION

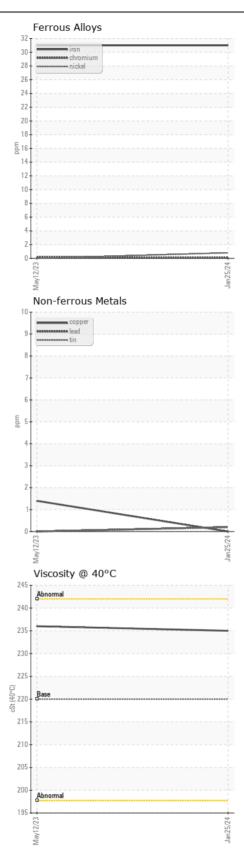
The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0873418	WC0809208	
Sample Date		Client Info		25 Jan 2024	12 May 2023	
Machine Age	hrs	Client Info		5358	4683	
Oil Age	hrs	Client Info		675	1090	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
			150	04	04	
Iron	ppm	ASTM D5185m	>150	31	31	
Chromium	ppm	ASTM D5185m	>10	<1	<1	
Nickel	ppm	ASTM D5185m	>10	<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	5	0	0	
Aluminum	ppm	ASTM D5185m	>5	<1	0	
Lead	ppm	ASTM D5185m	>15	<1	0	
Copper	ppm	ASTM D5185m	>80	0	1	
Tin	ppm	ASTM D5185m		<1	0	
Vanadium	ppm	ASTM D5185m	NONE	0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	NONE <1	NONE <1	
Silicon	ppm	ASTM D5185m	>25	<1	<1	
Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>25 >20	<1 4	<1 3	
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>25 >20 >0.2	<1 4 NEG	<1 3 NEG	
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>25 >20 >0.2 NONE	<1 4 NEG LIGHT	<1 3 NEG NONE	
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>25 >20 >0.2 NONE NONE	<1 4 NEG LIGHT NONE	<1 3 NEG NONE NONE	
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>25 >20 >0.2 NONE NONE NONE	<1 4 NEG LIGHT NONE NONE	<1 3 NEG NONE NONE NONE	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>25 >20 >0.2 NONE NONE NONE NORML	<1 4 NEG LIGHT NONE NONE NORML	<1 3 NEG NONE NONE NONE NORML	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>25 >20 >0.2 NONE NONE NONE NORML	<1 4 NEG LIGHT NONE NONE NORML NEG	<1 3 NEG NONE NONE NONE NORML NORML NEG	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>25 >20 >0.2 NONE NONE NORML NORML >0.2	<1 4 NEG LIGHT NONE NORML NORML NEG 2	<1 3 NEG NONE NONE NORML NORML NEG 2	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar gppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>25 >20 >0.2 NONE NONE NORML >0.2	<1 4 NEG LIGHT NONE NORML NORML NEG 2 0	<1 3 NEG NONE NONE NORML NORML NEG 2 2	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>25 >20 >0.2 NONE NONE NORML NORML >0.2	<1 4 NEG LIGHT NONE NORML NORML NEG 2 0 2	<1 3 NEG NONE NONE NORML NORML NEG 2 2 2 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.2 NONE NONE NORML >0.2	<1 4 NEG LIGHT NONE NORML NORML NEG 2 0 2 0 2	<1 3 NEG NONE NONE NORML NORML NEG 2 2 2 0 0 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar gpm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.2 NONE NONE NORML >0.2 50 15 15	<1 4 NEG LIGHT NONE NORML NORML NEG 2 0 2 0 2 0 2	<1 3 NEG NONE NONE NORML NORML NEG 2 2 2 0 0 0 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;25</li> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>50</li> <li>15</li> <li>50</li> <li>50</li> </ul>	<1 4 NEG LIGHT NONE NONE NORML NORML NEG 2 0 2 0 <1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	<1 3 NEG NONE NONE NONE NORML NORML NORML 2 2 2 0 0 0 0 1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20 >0.2 NONE NONE NORML NORML >0.2 50 15 15 50 50	<1 4 NEG LIGHT NONE NORML NORML NEG 2 0 2 0 2 0 <1 2 9	<1 3 NEG NONE NONE NORML NORML NEG 2 2 2 0 0 0 0 0 0 0 0 1 4 1	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;25</li> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>50</li> <li>50</li></ul>	<1 4 NEG LIGHT NONE NORML NORML NEG 2 0 2 0 <1 2 9 228	<1 3 NEG NONE NONE NONE NORML NORML 2 2 2 0 0 0 0 <1 1 9 0	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;25</li> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>50</li> <li>50</li> <li>50</li> <li>50</li> <li>50</li> <li>350</li> <li>100</li> </ul>	<1 4 NEG LIGHT NONE NONE NORML NORML 2 0 2 0 <1 2 9 228 20	<1 3 NEG NONE NONE NONE NORML NORML NORML 2 2 2 0 0 0 0 <1 <1 9 2	
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	<ul> <li>&gt;25</li> <li>&gt;20</li> <li>&gt;0.2</li> <li>NONE</li> <li>NORME</li> <li>NORML</li> <li>&gt;0.2</li> <li>50</li> <li>50</li></ul>	<1 4 NEG LIGHT NONE NORML NORML NEG 2 0 2 0 <1 2 9 228	<1 3 NEG NONE NONE NONE NORML NORML 2 2 2 0 0 0 0 <1 1 9 0	

Contact/Location: MICHAEL LAWSON - BUCGRA





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

Diagnostician : Wes Davis

: 30 Jan 2024

: 31 Jan 2024

Recieved

Diagnosed

**BUCKNER HEAVY LIFT** 4732 NC 54 EAST GRAHAM, NC US 27253-9215 Contact: MICHAEL LAWSON michaell@bucknercompanies.com T: (336)376-8888 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (336)376-4090



Report Id: BUCGRA [WUSCAR] 06074241 (Generated: 01/31/2024 16:34:06) Rev: 1

Certificate L2367

Laboratory

Sample No.

Lab Number

Unique Number : 10856332

Test Package : CONST

: WC0873418

: 06074241

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.

Contact/Location: MICHAEL LAWSON - BUCGRA

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