

WEAR ABNORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

Machine Id HC2229 Component 1 Winch Fluid GEAR OIL ISO 220 (--- GAL) RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

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Gear wear is indicated. All other component wear rates are normal.

CONTAMINATION

Elemental level of silicon (Si) above normal. The water content is negligible.

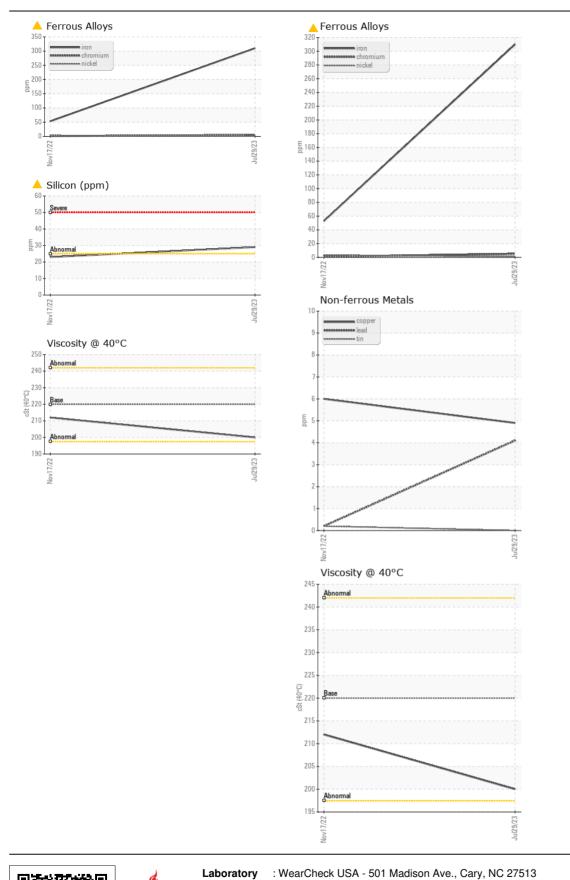
FLUID CONDITION

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		WC0810423	WC0720447	
Sample Date		Client Info		29 Jul 2023	17 Nov 2022	
Machine Age	hrs	Client Info		6455	5125	
Oil Age	hrs	Client Info		0	717	
Filter Age	hrs	Client Info		0	717	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	Changed	
Sample Status			ABNORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>150	310	53	
Chromium	ppm	ASTM D5185m	>10	5	<1	
Nickel	ppm	ASTM D5185m	>10	1	3	
Titanium	ppm	ASTM D5185m	210	، <1	0	
Silver	ppm	ASTM D5185m		0	1	
Aluminum	ppm	ASTM D5185m	>5	1	1	
Lead	ppm	ASTM D5185m	>15	4	<1	
Copper	ppm	ASTM D5185m	>80	5	6	
Tin	ppm	ASTM D5185m	,	0	<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	4 29	23	
Potassium	ppm	ASTM D5185m	>20	4	1	
Water		WC Method	>0.2	NEG	NEG	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	▲ 0.2%	
Sodium	ppm	ASTM D5185m		4	4	
Boron	ppm	ASTM D5185m	50	0	6	
	ppm	ASTM D5185m	15	0	0	
Barium						
Barium Molybdenum	ppm	ASTM D5185m	15	<1	<1	
	ppm ppm	ASTM D5185m ASTM D5185m	15	<1 5	<1 <1	
Molybdenum			15 50			
Molybdenum Manganese	ppm	ASTM D5185m		5	<1	
Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m	50	5 2	<1 2	
Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 50	5 2 10	<1 2 43	
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 50 350	5 2 10 234	<1 2 43 473	

Contact/Location: MICHAEL LAWSON - BUCGRA



BUCKNER HEAVY LIFT : 15 Aug 2023 4732 NC 54 EAST GRAHAM, NC : 16 Aug 2023 : 17 Aug 2023 - Don Baldridge 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

Sample No.

Lab Number : 05925595

Unique Number : 10605542

Test Package : CONST

: WC0810423

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

Received

Diagnosed

Tested