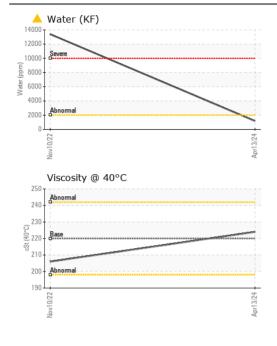
WEAR CONTAMINATION FLUID CONDITION

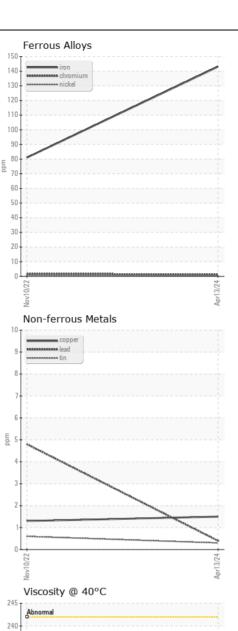
NORMAL
ATTENTION
NORMAL

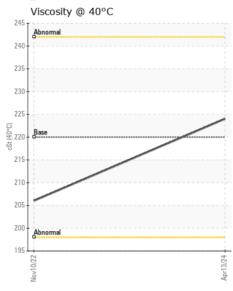
Machine Id

HC2226
Component
2 Winch

GEAR OIL ISO 220 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0922173	WC0720429	
	Sample Date		Client Info		13 Apr 2024	10 Nov 2022	
	Machine Age	hrs	Client Info		8369	6706	
	Oil Age	hrs	Client Info		926	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				ATTENTION	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	>150	143	81	
	Chromium	ppm	ASTM D5185m	>10	1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m		<1	<1	
	Aluminum	ppm	ASTM D5185m	>5	4	<1	
	Lead	ppm	ASTM D5185m		<1	5	
	Copper	ppm	ASTM D5185m	>80	2	1	
	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	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	7	3	
Appearance is hazy. There is a trace of moisture present in the oil.	Potassium	ppm	ASTM D5185m		2	37	
	Water	%	ASTM D6304	>0.2	<u> </u>	<b>▲</b> 1.34	
	ppm Water	ppm	ASTM D6304	>2000	<u> </u>	<b>13400</b>	
	Silt	scalar	*Visual	NONE	MODER	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	HAZY	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	0.2%	▲ 0.2%	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	11	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m	50	2	1	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		5	<1	
	Manganese	ppm	ASTM D5185m		3	2	
	Magnesium	ppm	ASTM D5185m	50	11	12	
	Calcium	ppm	ASTM D5185m		28	6	
	Phosphorus	ppm	ASTM D5185m	350	351	259	
	Zinc	ppm	ASTM D5185m	100	53	13	
	Sulfur	ppm	ASTM D5185m	12500	4866	126	









Certificate L2367

Report Id: BUCWILTX [WUSCAR] 06153837 (Generated: 05/06/2024 10:30:34) Rev: 1

Laboratory Sample No.

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

Lab Number : 06153837 Unique Number: 10989260

: WC0922173 Test Package : CONST ( Additional Tests: KF )

Received **Tested** Diagnosed

: 18 Apr 2024 : 23 Apr 2024

: 23 Apr 2024 - Jonathan Hester

**BUCKNER - WILLIS** 18123 HWY 75 NORTH WILLIS, TX US 77378 Contact: JOHN HAWKINS

johnh@bucknercompanies.com T:

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)

F: