WEAR CONTAMINATION FLUID CONDITION

ABNORMAL

ABNORMAL

NORMAL

Machine Id HC2209

2 Winch

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.	Sample Number	OOW	Client Info	LIIIII/AUII	WC0951926	WC0784997	
	Sample Date		Client Info		03 Jul 2024	20 Apr 2023	
	Machine Age	hrs	Client Info		10485	8992	
	Oil Age	hrs	Client Info		1000	1340	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	Changed	
	Sample Status				ABNORMAL	SEVERE	
AVE A D							
WEAR Gear wear is indicated.	Iron	ppm	ASTM D5185m		<u>▲</u> 682	<u>^</u> 674	
	Chromium	ppm	ASTM D5185m		<u> </u>	▲ 14 -	
	Nickel	ppm	ASTM D5185m	>10	2	5	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	. 5	0	0	
	Aluminum	ppm	ASTM D5185m		<u>^</u> 9	<u>11</u>	
	Lead	ppm	ASTM D5185m		1	2	
	Copper	ppm	ASTM D5185m ASTM D5185m	>00	2 0	2	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	ppm scalar	*Visual	NONE	NONE	<1 NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Tellow Metal	Scalai	visuai	INOINL			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	13	16	
There is a high concentration of water present in the oil. Sample is layered with different type/density oil.	Potassium	ppm	ASTM D5185m	>20	2	3	
	Water	%	ASTM D6304	>0.2	△ 0.225	▲ 2.27	
	ppm Water	ppm	ASTM D6304	>2000	<u> </u>	▲ 22700	
	Silt	scalar	*Visual	NONE	NONE	MODER	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	SOLID	SOLID	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	<u> </u>	▲ 0.2%	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m	50	0	0	
	Barium	ppm	ASTM D5185m	15	0	0	
	Molybdenum	ppm	ASTM D5185m	15	<1	<1	
	Manganese	ppm	ASTM D5185m		9	9	
	Magnesium	ppm	ASTM D5185m	50	2	2	
	Calcium	ppm	ASTM D5185m	50	21	31	
	Phosphorus	ppm	ASTM D5185m	350	528	501	
	Zinc	ppm	ASTM D5185m	100	177	445	
	Sulfur	ppm	ASTM D5185m	12500	7648	6550	

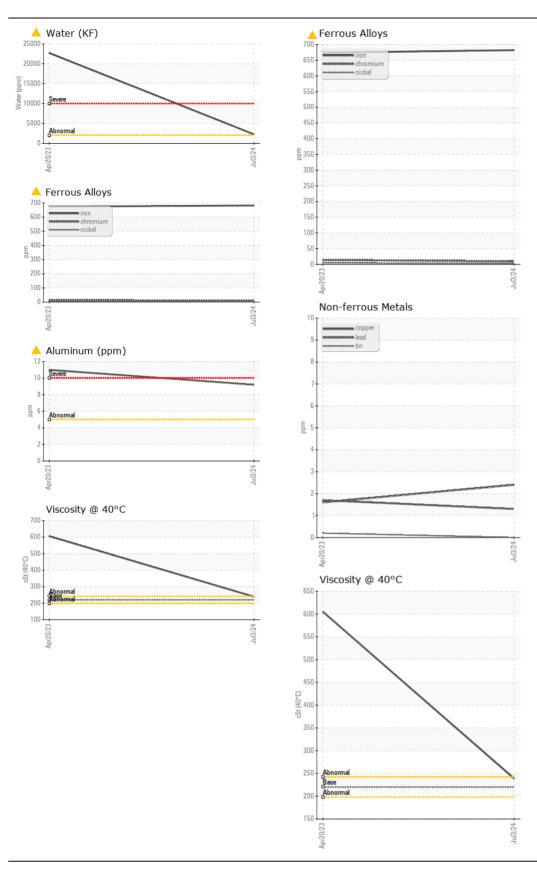
Visc @ 40°C

cSt

ASTM D445 220

<u>▲</u> 605

239





Certificate L2367

Laboratory Sample No.

Lab Number : 06231787

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0951926

Received **Tested** Unique Number : 11115280 Test Package : CONST (Additional Tests: KF)

: 10 Jul 2024 Diagnosed

: 09 Jul 2024

: 11 Jul 2024 - Don Baldridge

4732 NC 54 EAST GRAHAM, NC US 27253-9215 Contact: MICHAEL LAWSON

BUCKNER HEAVY LIFT

michaell@bucknercompanies.com T: (336)376-8888

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: (336)376-4090