

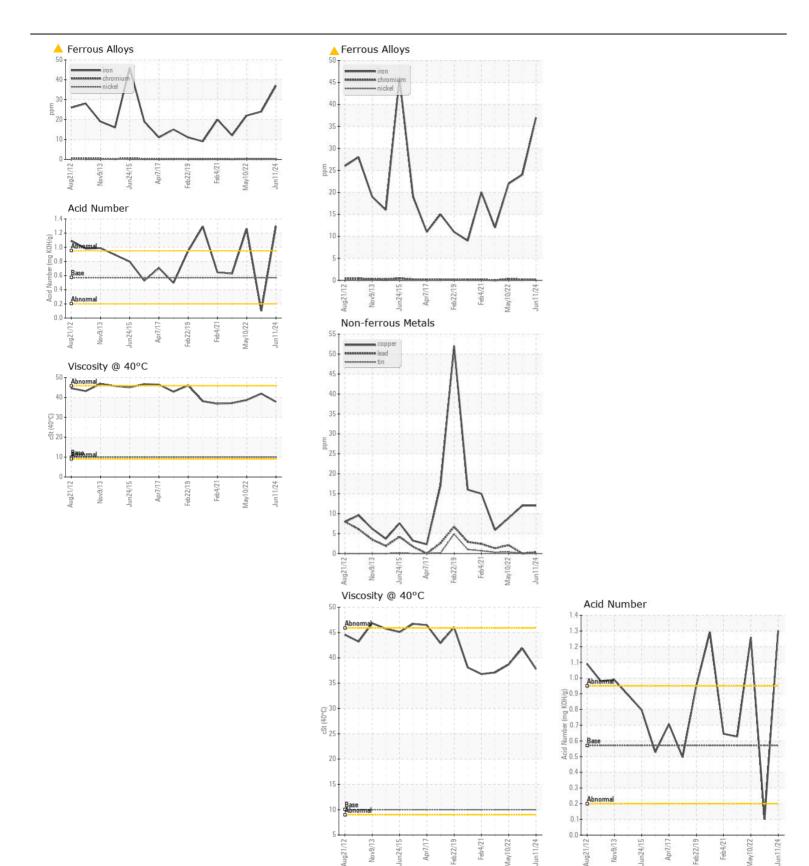
**WEAR CONTAMINATION FLUID CONDITION**  **ABNORMAL ABNORMAL NORMAL** 

**Contracting** 

5520 5520

Hydraulic System

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Number		Client Info		WC0937935	WC0808933	WC068827
	Sample Date		Client Info		11 Jun 2024	19 Apr 2023	10 May 202
	Machine Age	hrs	Client Info		12720	12218	3759
	Oil Age	hrs	Client Info		31	1286	773
	Filter Age	hrs	Client Info		31	1286	773
	Oil Changed		Client Info		Not Changd	Not Changd	Not Chang
	Filter Changed		Client Info		Not Changd	0	Changed
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	>20	<b>▲</b> 37	<u> </u>	<u>^</u> 22
	Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
The iron level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m	>10	<1	1	1
	Lead	ppm	ASTM D5185m		<1	0	2
	Copper	ppm	ASTM D5185m		12	12	9
	Tin	ppm	ASTM D5185m	>10	0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
OONT A MINIATION	0:1:		AOTM DE40E			4	4
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	4	4
High concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m		4 NFO	2	4
	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	1000		107798	
	Particles >6µm		ASTM D7647			<u>14588</u>	
	Particles >14µm		ASTM D7647			<u>^</u> 206	
	Particles >21µm		ASTM D7647			27	
	Particles >38µm		ASTM D7647			0	
	Particles >71µm		ASTM D7647			_	
	Oil Cleanliness		ISO 4406 (c)			△ 24/21/15	NONE
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ HEAVY	LIGHT	LIGH1
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	MILKY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%	▲ 0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		4	2	<1
	Boron	ppm	ASTM D5185m	5	0	4	19
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	5	1	1	2
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m	25	413	315	346
	Calcium	ppm			121	155	257
	Phosphorus	ppm	ASTM D5185m		836	709	768
	Zinc	ppm	ASTM D5185m		968	804	927
	Sulfur	ppm	ASTM D5185m		4899	4603	3624
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.30	0.10	1.26
	Visc @ 40°C	cSt	ASTM D445		37.8	41.9	38.7







Certificate L2367

Report Id: CARBUTNC [WUSCAR] 06209951 (Generated: 06/17/2024 15:17:06) Rev: 1

Laboratory Sample No.

: WC0937935 Lab Number : 06209951 Unique Number : 11082815 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Jun 2024 **Tested** : 17 Jun 2024

Diagnosed

: 17 Jun 2024 - Don Baldridge

PO BOX 25 BUTNER, NC US 27509

**CAROLINA SUNROCK** 

Contact: Leigh Dennis rdennis@thesunrockgroup.com

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. T: (919)575-4505 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)575-0162