

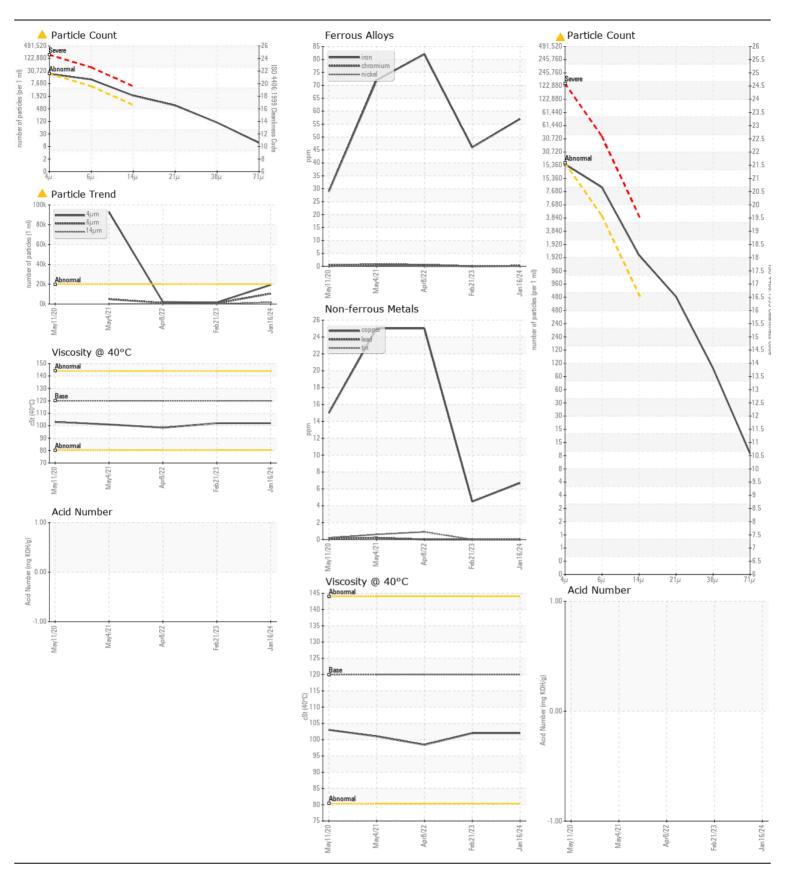
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

Mobile Fleet
Machine Id
6450 6450

Component Front Differential

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0885942	WC0764987	WC068822
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		16 Jan 2024	21 Feb 2023	08 Apr 202
the next service interval to monitor.	Machine Age	hrs	Client Info		8253	6219	4146
	Oil Age	hrs	Client Info		4107	2037	4146
	Filter Age	hrs	Client Info		4107	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>500	57	46	82
	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	<1	<1
	Aluminum	ppm	ASTM D5185m	>25	<1	<1	1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		7	4	25
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	LIGHT	NONE	LIGHT
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONT A MINI A TION	Ciliana		ACTM DE10E	75	40		05
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		18 0	8	25 2
There is a high amount of particulates present in the oil.	Water	ppm	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		19365	1522	2088
	Particles >6µm		ASTM D7647		▲ 10549	829	1137
	Particles >14µm		ASTM D7647		▲ 1795	141	194
	Particles >21µm		ASTM D7647		▲ 605	48	65
	Particles >38µm		ASTM D7647		<u></u> 93	7	10
	Particles >71µm		ASTM D7647		10	1	1
	Oil Cleanliness		ISO 4406 (c)		<u>^</u> 21/21/18	18/17/14	18/17/
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>.2	NEG	NEG	NEG
LUD CONDITION	Codium	nn	ACTM DE10E		2	o	0
LUID CONDITION	Sodium Boron	ppm	ASTM D5185m		3	3	8
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m ASTM D5185m		264	305 0	251
	Molybdenum	ppm	ASTM D5185m		0 <1	1	
	Manganese	ppm	ASTM D5185m		6	5	<1 17
	Magnesium	ppm	ASTM D5185m		15	20	<1
	Calcium	ppm	ASTM D5165III		41	45	9
	Phosphorus	ppm	ASTM D5185m		41 1268	45 1257	1384
	•	ppm	ASTM D5185m		35	40	9
						411	
	Zinc Sulfur	ppm	ASTM D5185m		20762	25056	20873





Certificate L2367

Laboratory Sample No. **Lab Number Unique Number** 

: WC0885942 : 06065487 : 10836869

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

Recieved : 19 Jan 2024 Diagnosed

: 23 Jan 2024 Diagnostician : Don Baldridge

Test Package : CONST ( Additional Tests: PrtCount ) 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) **CAROLINA SUNROCK** 

PO BOX 25 BUTNER, NC US 27509

Contact: Leigh Dennis rdennis@thesunrockgroup.com

T: (919)575-4505 F: (919)575-0162