

WEAR CONTAMINATION **FLUID CONDITION**

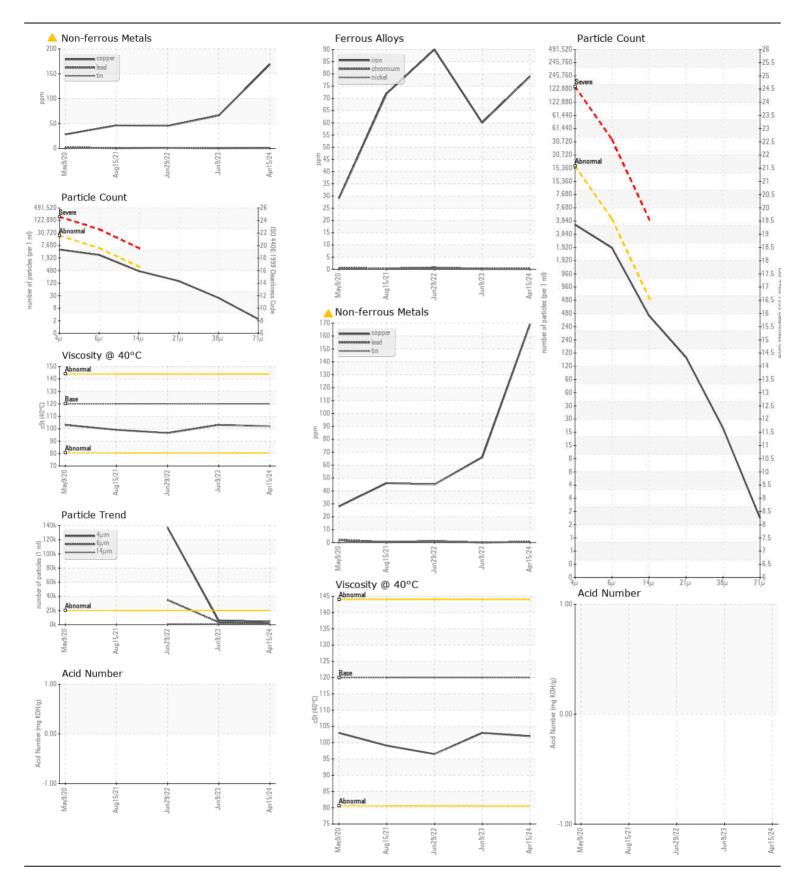
ABNORMAL ABNORMAL NORMAL

Mobile Fleet

6444 6444

Component **Differential**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		WC0919047	WC0819056	WC071060
	Sample Date		Client Info		15 Apr 2024	09 Jun 2023	29 Jun 202
	Machine Age	hrs	Client Info		8262	6440	4273
	Oil Age	hrs	Client Info		3995	2173	1954
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	N/A	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>500	79	60	90
	Chromium	ppm	ASTM D5185m		<1	<1	<1
The copper level is abnormal. All other component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	2
	Aluminum	ppm	ASTM D5185m	>25	2	2	2
	Lead	ppm	ASTM D5185m		<1	0	1
	Copper	ppm	ASTM D5185m	>100	169	66	45
	Tin	ppm	ASTM D5185m	>10	<1	<1	1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	LIGH
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<u>~75</u>	39	29	28
ONTAMINATION	Potassium	ppm	ASTM D5185m		9	4	5
Moderate concentration of visible dirt/debris present in the oil. The amount and size of particulates present in the system are acceptable.	Water	ррпп	WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		4306	6125	▲ 13712
	Particles >6µm		ASTM D7647		2346	3336	▲ 34877
	Particles >14µm		ASTM D7647		399	568	▲ 874
	Particles >21µm		ASTM D7647		134	191	134
	Particles >38µm		ASTM D7647		21	30	2
	Particles >71µm		ASTM D7647		2	3	1
	Oil Cleanliness		ISO 4406 (c)	>21/19/16	19/18/16	20/19/16	<u>4</u> 24/22/
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	▲ MODER	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		5	4	11
LOID CONDITION	Boron	ppm	ASTM D5185m		78	107	241
The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		<1	0	<1
	Molybdenum	ppm	ASTM D5185m		<1	1	<1
	Manganese	ppm	ASTM D5185m		4	4	15
	Magnesium	ppm	ASTM D5185m		6	14	4
	Calcium	ppm	ASTM D5185m		28	36	11
	Phosphorus	ppm	ASTM D5185m		767	876	1348
	Zinc	ppm	ASTM D5185m		18	22	27
	Sulfur	ppm	ASTM D5185m		20325	25056	25056
		le le		120			





Certificate L2367

Laboratory Sample No. Lab Number

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

: WC0919047 : 06151853 Unique Number: 10981931

Received **Tested** Diagnosed

Test Package : CONST (Additional Tests: PrtCount)

: 17 Apr 2024

: 19 Apr 2024 : 19 Apr 2024 - Don Baldridge

PO BOX 25 BUTNER, NC US 27509 Contact: Leigh Dennis

CAROLINA SUNROCK

To discuss this sample report, contact Customer Service at 1-800-237-1369. rdennis@thesunrockgroup.com * - 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