

# **Mobile Fleet**

#### 8027 8027 Component

Diesel Engine

DIESEL ENGINE OIL SAE 10W30 (10 GAL)

## RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

## **WEAR**

All component wear rates are normal.

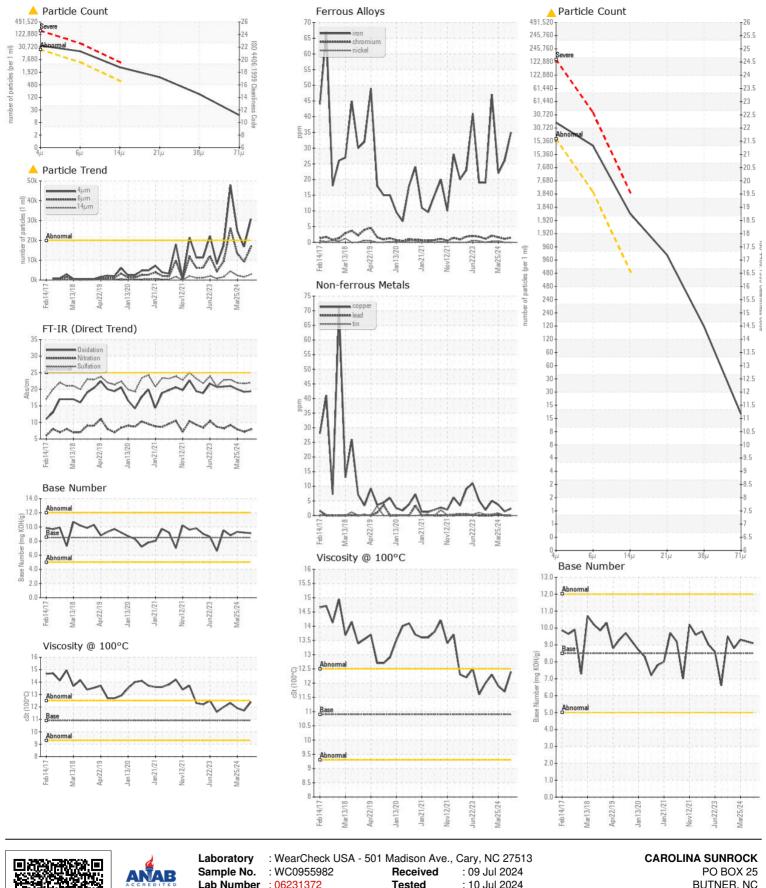
## CONTAMINATION

There is a high amount of particulates present in the oil.

#### **FLUID CONDITION**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0955982	WC0939324	WC0918657
Sample Date		Client Info		03 Jul 2024	09 May 2024	25 Mar 2024
	lawa					
Machine Age	hrs	Client Info		23995	23731	23455
Oil Age	hrs	Client Info		542	278	347
Filter Age	hrs	Client Info		542	278	347
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>80	35	26	22
Chromium	ppm	ASTM D5185m	>5	2	1	2
Nickel	ppm	ASTM D5185m	>2	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver		ASTM D5185m	>3	0	0	<1
	ppm	ASTM D5185m	>30	12	9	12
Aluminum	ppm					
Lead	ppm	ASTM D5185m	>30	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	1	4
Tin	ppm	ASTM D5185m	>5	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	14	12	12
Potassium	ppm	ASTM D5185m	>20	3	3	11
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method	- 0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.7	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.9	7.2	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	21.7	21.9
Particles >4µm		ASTM D7647	>20000	<b>30771</b>	16834	A 24663
Particles >6µm		ASTM D7647	>5000	<b>16763</b>	9170	▲ 13436
Particles >14µm		ASTM D7647	>640	<u> </u>	<b>1</b> 561	<u> </u>
Particles >21µm		ASTM D7647	>160	<u> </u>	🔺 526	<u> </u>
Particles >38µm		ASTM D7647	>40	<b>A</b> 148	<b>A</b> 81	<u> </u>
Particles >71µm		ASTM D7647	>10	🔺 15	8	<u> </u>
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>A</b> 22/21/19	<u> </u>	🔺 22/21/18
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	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
						NLO.
Sodium	ppm	ASTM D5185m		5	4	13
Boron	ppm	ASTM D5185m	250	31	38	33
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m		47	48	51
Manganese			100			
0	ppm	ASTM D5185m	450	<1	<1	<1
Magnesium	ppm	ASTM D5185m		519	554	503
Calcium	ppm	ASTM D5185m	3000	1782	1797	1677
Phosphorus	ppm	ASTM D5185m	1150	811	810	794
Zinc	ppm	ASTM D5185m	1350	968	1001	936
Sulfur	ppm	ASTM D5185m	4250	3010	3165	2705
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.4	19.2	20.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	9.1	9.2	9.3
Visc @ 100°C	cSt	ASTM D445	10.9	12.4	11.7	11.9



Lab Number Tested BUTNER, NC : 06231372 : 10 Jul 2024 : 10 Jul 2024 - Don Baldridge US 27509 Unique Number : 11114865 Diagnosed Test Package : CONST (Additional Tests: PrtCount, TBN) Contact: Leigh Dennis Certificate L2367 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

Contact/Location: Leigh Dennis - CARBUTNC Page 2 of 2