

RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	SEVERE		
Iron	ppm	ASTM D5185m	>500	A 870	13	1 164		
Particles >4µm		ASTM D7647	>20000	🔺 20618	1383	4 24168		
Particles >6µm		ASTM D7647	>5000	<u> </u>	754	1 3166		
Particles >14µm		ASTM D7647	>640	🔺 1912	128	🔺 2241		
Particles >21µm		ASTM D7647	>160	<u> </u>	43	A 755		
Particles >38µm		ASTM D7647	>40	A 99	7	🔺 117		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	18/17/14	<u> </u>		

Customer Id: CARBUTNC Sample No.: WC0919029 Lab Number: 06146513 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED A	ECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Resample			?	We recommend an early resample to monitor this condition.			

HISTORICAL DIAGNOSIS



29 Dec 2023 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR

18 Oct 2023 Diag: Don Baldridge

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.Gear wear is indicated. There is a high amount of particulates present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



01 Aug 2023 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level has decreased, but is still abnormal. All other component wear rates are normal. There is a moderate amount of particulates present in the oil. The condition of the oil is acceptable for the time in service.



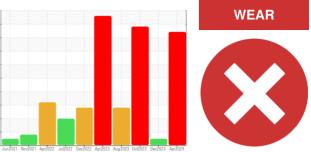


view report



OIL ANALYSIS REPORT

Sample Rating Trend



A Wear

the oil.

Mobile Fleet 5215 5215 Front Differential

Area

MOBIL MOBILTRANS HD 50 (--- GAL)

DIAGNOSIS SAMPLE INFORMATION method WC0919029 WC0861909 WC0867233 Sample Number Client Info Recommendation The oil change at the time of sampling has been Sample Date Client Info 09 Apr 2024 29 Dec 2023 18 Oct 2023 noted. We advise that you inspect for the source(s) 12329 Machine Age hrs **Client Info** 11759 11234 of wear. We recommend an early resample to Oil Age hrs Client Info 1119 1698 1137 monitor this condition. Oil Changed Client Info Changed Changed Not Changd SEVERE Sample Status NORMAL SEVERE Gear wear is indicated. CONTAMINATION Contamination There is a high amount of particulates present in Water >.2 NEG NEG WC Method NEG WEAR METALS Fluid Condition Iron ppm ASTM D5185m >500 870 13 ▲ 1164 The oil is no longer serviceable as a result of the abnormal and/or severe wear. Chromium ASTM D5185m >3 3 4 ppm <1 Nickel 0 4 ppm ASTM D5185m >3 4 Titanium ASTM D5185m >2 <1 0 0 ppm 0 0 Silver ASTM D5185m >2 ppm 1 Aluminum ppm ASTM D5185m >30 5 2 6 ASTM D5185m >13 1 0 2 Lead ppm ASTM D5185m >103 70 1 86 Copper ppm Tin ASTM D5185m >5 1 ~1 2 ppm Vanadium 0 0 ppm ASTM D5185m <1 0 Cadmium ppm ASTM D5185m 1 <1 ADDITIVES history 2 0 4 Boron ASTM D5185m ppm Barium ppm ASTM D5185m 0 0 1 Molvbdenum ppm ASTM D5185m 4 1 7 ASTM D5185m 7 0 8 Manganese ppm Magnesium ASTM D5185m 17 10 41 ppm 2005 3332 Calcium ASTM D5185m 3335 ppm Phosphorus ASTM D5185m 962 551 929 ppm Zinc ppm ASTM D5185m 975 663 1088 Sulfur ASTM D5185m 13004 7682 12851 ppm CONTAMINANTS 4 Silicon ppm ASTM D5185m >100 20 26 Sodium ASTM D5185m 0 0 <1 ppm Potassium ASTM D5185m >20 1 ppm <1 <1 **FLUID CLEANLINESS** Particles >4µm ASTM D7647 >20000 20618 1383 **24168** Particles >6µm ASTM D7647 >5000 11232 754 ▲ 13166 **1912** 128 **2241** Particles >14µm ASTM D7647 >640 Particles >21µm ASTM D7647 >160 644 43 755 >40 99 7 Particles >38µm ASTM D7647 **1**17

ASTM D7647 >10

ISO 4406 (c) >21/19/16 A 22/21/18

10

Particles >71µm

Oil Cleanliness

18/17/14

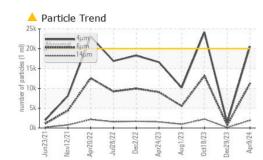
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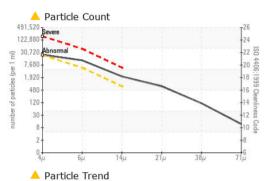
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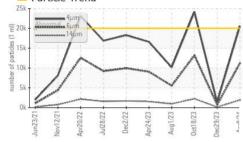
▲ 22/21/18



OIL ANALYSIS REPORT







Viscosity @ 40°C

Acid Number

Nov12/21

Unr20/7:

128/22

Abnormal

240

220

200 - B

140 4

120

100

1.0

Acid Number () 00

-1.0

Jun23/21

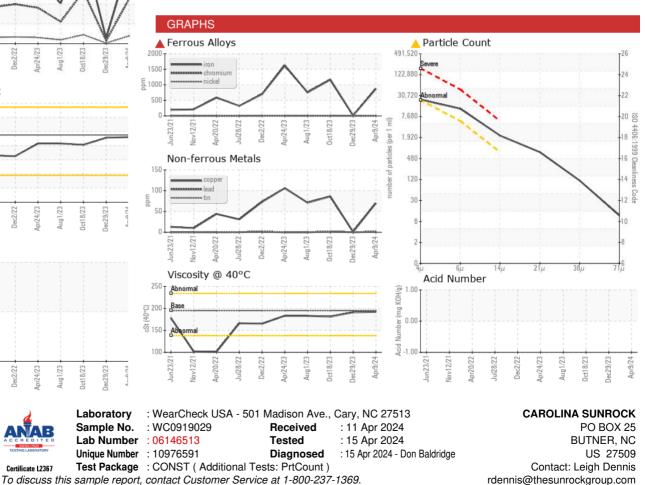
(ma KOH/a)

Ç 180

रन्तुं 160

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	195	192	191	181
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						

Bottom



* - 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)

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