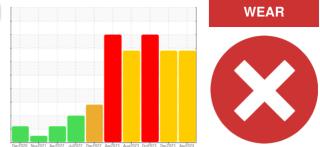


PROBLEM SUMMARY

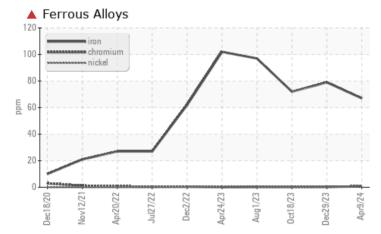
Sample Rating Trend



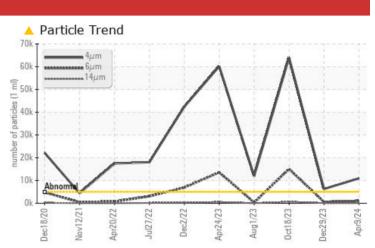
Hydraulic System Fluid MOBIL HYDRAULIC 10W (38 GAL)

COMPONENT CONDITION SUMMARY

Area



Mobile Fleet 5215 5215



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

| PROBLEMATIC TEST RESULTS | | | | | | | |
|--------------------------|-----|--------------|-----------|------------|-------------|------------|--|
| Sample Status | | | | SEVERE | SEVERE | SEVERE | |
| Iron | ppm | ASTM D5185m | >20 | 6 7 | 1 79 | ▲ 72 | |
| Particles >4µm | | ASTM D7647 | >5000 | 🔺 10948 | 6276 | ▲ 63999 | |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | <u> </u> | 0 20/16/13 | ▲ 23/21/17 | |

Customer Id: CARBUTNC Sample No.: WC0919030 Lab Number: 06146515 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

| HISTORICAL | DIAGNOSIS |
|------------|--|
| WEAR | 29 Dec 2023 Diag: Don Baldridge The filter change at the time of sampling has been noted. We advise that you inspect recommend an early resample to monitor this condition. The iron level is severe. All of are normal. There is a moderate amount of silt (particulates < 14 microns in size) pre- acceptable for this fluid. The condition of the oil is acceptable for the time in service. |

Date

ect for the source(s) of wear. We other component wear rates resent in the oil. The AN level is

Done By

?

?

?



The filter 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. The iron level is severe. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

01 Aug 2023 Diag: Don Baldridge



WEAR

The filter 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. The iron level is severe. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.







view report

view report







Status

Action

Change Fluid

Change Filter

Resample

Description

Oil and filter change at the time of sampling has been noted.

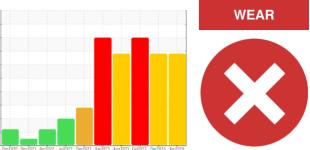
Oil and filter change at the time of sampling has been noted.

We recommend an early resample to monitor this condition.



OIL ANALYSIS REPORT

Sample Rating Trend



COO

Mobile Fleet 5215 5215 Component Hydraulic System

MOBIL HYDRAULIC 10W (38 GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Area

🔺 Wear

The iron level has decreased, but is still severe. All other component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

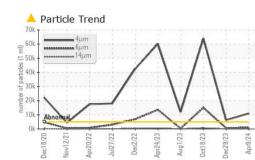
| SAMPLE INFORM | NATION | method | limit/base | current | history1 | history2 |
|---|---|---|--|--|--|--|
| Sample Number | | Client Info | | WC0919030 | WC0861904 | WC0867234 |
| Sample Date | | Client Info | | 09 Apr 2024 | 29 Dec 2023 | 18 Oct 2023 |
| Machine Age | hrs | Client Info | | 12329 | 11759 | 11234 |
| Oil Age | hrs | Client Info | | 2268 | 1698 | 1173 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | SEVERE | SEVERE | SEVERE |
| CONTAMINATIO | N | method | limit/base | current | history1 | history2 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >20 | 6 7 | 4 79 | A 72 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 1 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >10 | 1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 6 | 6 | 5 |
| Tin | ppm | ASTM D5185m | >10 | 1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | 1 | 0 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 1 | 1 | 3 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 3 | 2 | 2 |
| Manganese | ppm | ASTM D5185m | | 2 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | | 582 | 697 | 642 |
| Calcium | ppm | ASTM D5185m | | 128 | 96 | 86 |
| Phosphorus | ppm | ASTM D5185m | | 1116 | 1085 | 1002 |
| | | | | | | |
| Zinc | | ASTM D5185m | | 1181 | 1279 | 1216 |
| Zinc Sulfur | ppm ppm | ASTM D5185m ASTM D5185m | | 1181 6674 | 1279 7627 | 1216 6202 |
| | ppm ppm | | limit/base | | 7627 | 6202 |
| Sulfur | ppm ppm | ASTM D5185m | limit/base | 6674 | | |
| Sulfur CONTAMINANTS | ppm ppm | ASTM D5185m method | | 6674 current | 7627 history1 | 6202 history2 |
| Sulfur CONTAMINANTS Silicon | ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m | | 6674 current 6 | 7627 history1 6 | 6202 history2 7 |
| Sulfur CONTAMINANTS Silicon Sodium | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m | >20 | 6674 current 6 0 | 7627 <mark>history1</mark> 6 0 | 6202 history2 7 <1 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m | >20 >20 | 6674 current 6 0 1 | 7627 history1 6 0 <1 | 6202 history2 7 <1 0 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method | >20 >20 limit/base | 6674 current 6 0 1 current | 7627 history1 6 0 <1 history1 | 6202 history2 7 <1 0 history2 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 | >20 >20 limit/base >5000 | 6674 <u>current</u> 6 0 1 <u>current</u> ▲ 10948 | 7627 history1 6 0 <1 history1 6276 | 6202 history2 7 <1 0 history2 A 63999 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D7647 ASTM D7647 | >20 >20 limit/base >5000 >1300 >160 | 6674 current 6 0 1 current Current 10948 1055 | 7627 history1 6 0 <1 history1 6276 571 | 6202 history2 7 <1 0 history2 ▲ 63999 ▲ 15024 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D7647 ASTM D7647 ASTM D7647 | >20 >20 limit/base >5000 >1300 >160 | 6674 current 6 0 1 current 10948 1055 79 | 7627 history1 6 0 <1 history1 6276 571 63 | 6202 history2 7 <1 0 history2 ▲ 63999 ▲ 15024 ▲ 668 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D7687 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | >20 >20 limit/base >5000 >1300 >160 >40 >10 | 6674 current 6 0 1 Current ▲ 10948 1055 79 21 | 7627 history1 6 0 <1 history1 6276 571 63 16 | 6202 history2 7 <1 0 history2 ▲ 63999 ▲ 15024 ▲ 668 ▲ 128 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm | ppm ppm ppm ppm ppm ppm | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | >20 >20 limit/base >5000 >1300 >160 >40 >10 | 6674 current 6 0 1 current ▲ 10948 1055 79 21 1 | 7627 history1 6 0 <1 history1 6276 571 63 16 0 | 6202 history2 7 <1 0 history2 ▲ 63999 ▲ 15024 ▲ 668 ▲ 128 4 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm | ppm ppm ppm ppm ppm VESS | ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 | >20 >20 limit/base >5000 >1300 >160 >40 >10 >3 | 6674 current 6 0 1 current 10948 1055 79 21 1 1 0 | 7627 history1 6 0 <1 history1 6276 571 63 16 0 0 0 | 6202 history2 7 <1 0 history2 ▲ 63999 ▲ 15024 ▲ 668 ▲ 128 4 0 |
| Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness | ppm ppm ppm ppm ppm VESS | ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D7687 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c) | >20 >20 limit/base >5000 >1300 >160 >40 >10 >3 >3 >19/17/14 | 6674 current 6 0 1 current 10948 1055 79 21 1 0 21/17/13 | 7627 history1 6 0 <1 6276 571 63 16 0 0 0 20/16/13 | 6202 history2 7 <1 0 history2 ▲ 63999 ▲ 15024 ▲ 668 ▲ 128 4 0 ↓ 23/21/17 |

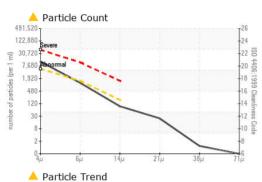
Report Id: CARBUTNC [WUSCAR] 06146515 (Generated: 04/16/2024 08:37:23) Rev: 1

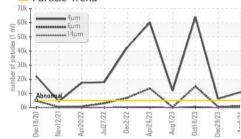
Contact/Location: Leigh Dennis - CARBUTNC Page 3 of 4

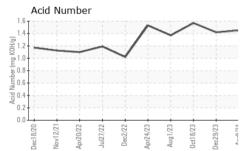


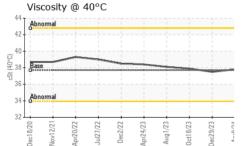
OIL ANALYSIS REPORT





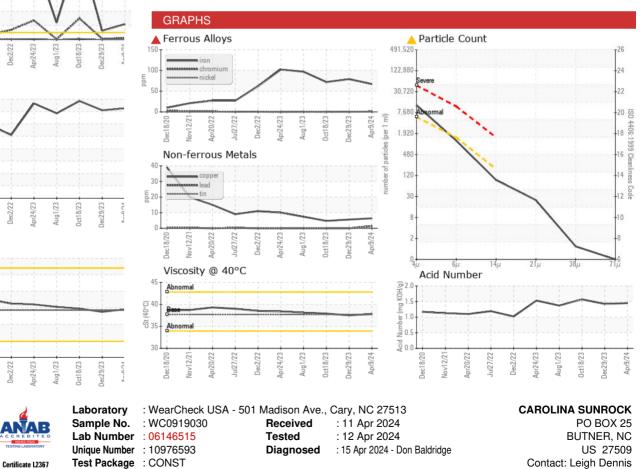






E

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|-----------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | >0.1 | 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 | 37.7 | 37.8 | 37.5 | 37.9 |
| SAMPLE IMAGES | 3 | method | limit/base | current | history1 | history2 |
| Color | | | | | | |
| Bottom | | | | | | |



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)

Report Id: CARBUTNC [WUSCAR] 06146515 (Generated: 04/16/2024 08:37:23) Rev: 1

Contact/Location: Leigh Dennis - CARBUTNC

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