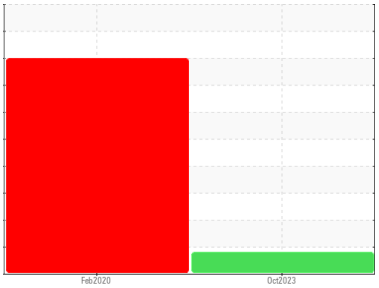
# OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Area
**Off-Road**
Machine Id
**E684**
Component
**Swing Drive**
Fluid
**MOBIL MOBILTRANS HD 50 (--- GAL)**

Sample Rating Trend




**WEAR**

## DIAGNOSIS

**Recommendation**
No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

**Wear**
Gear wear is indicated.

**Contamination**
There is no indication of any contamination in the oil.

**Fluid Condition**
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **PCA0090503** | PCA62152023 | --- |
| Sample Date | | Client Info | | **11 Oct 2023** | 26 Feb 2020 | --- |
| Machine Age | hrs | Client Info | | **11961** | 6873 | --- |
| Oil Age | hrs | Client Info | | **11961** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | --- |
| Sample Status | | | | **ABNORMAL** | SEVERE | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >400 | ▲ **844** | ⬢ 562 | --- |
| Chromium | ppm | ASTM D5185m | >10 | **6** | 4 | --- |
| Nickel | ppm | ASTM D5185m | >10 | **<1** | 0 | --- |
| Titanium | ppm | ASTM D5185m | | **<1** | --- | --- |
| Silver | ppm | ASTM D5185m | | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | **2** | 2 | --- |
| Lead | ppm | ASTM D5185m | >50 | **<1** | 0 | --- |
| Copper | ppm | ASTM D5185m | >200 | **3** | 2 | --- |
| Tin | ppm | ASTM D5185m | >10 | **<1** | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **1** | 1 | --- |
| Barium | ppm | ASTM D5185m | | **0** | 9 | --- |
| Molybdenum | ppm | ASTM D5185m | | **43** | 11 | --- |
| Manganese | ppm | ASTM D5185m | | **6** | --- | --- |
| Magnesium | ppm | ASTM D5185m | | **45** | 10 | --- |
| Calcium | ppm | ASTM D5185m | | **3501** | 3182 | --- |
| Phosphorus | ppm | ASTM D5185m | | **812** | 714 | --- |
| Zinc | ppm | ASTM D5185m | | **898** | 700 | --- |
| Sulfur | ppm | ASTM D5185m | | **10422** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | **26** | ▲ 17 | --- |
| Sodium | ppm | ASTM D5185m | | **8** | 7 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 2 | --- |

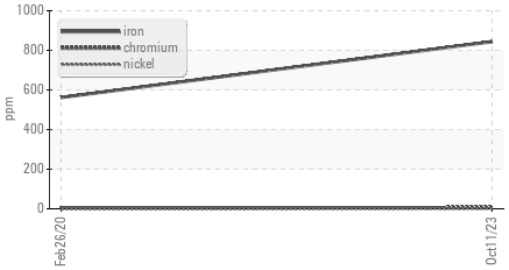
| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.92** | --- | --- |

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | --- | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | --- | --- |
| Silt | scalar | *Visual | NONE | **NONE** | --- | --- |
| Debris | scalar | *Visual | NONE | **NONE** | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | --- | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | --- | --- |
| Odor | scalar | *Visual | NORML | **NORML** | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | **NEG** | --- | --- |
| Free Water | scalar | *Visual | | **NEG** | --- | --- |

# OIL ANALYSIS REPORT

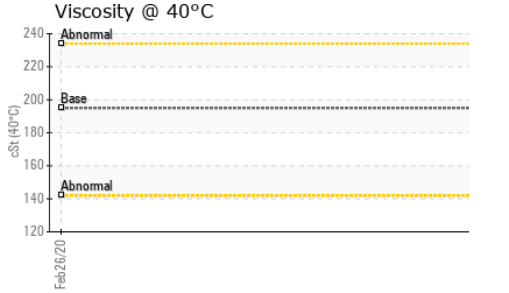
OIL DIAGNOSTICS

Ferrous Alloys




Acid Number


Viscosity @ 40°C

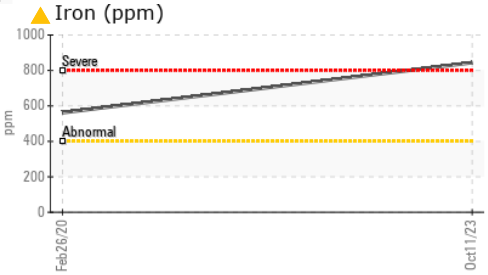



| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 195 | **121** | --- | --- |

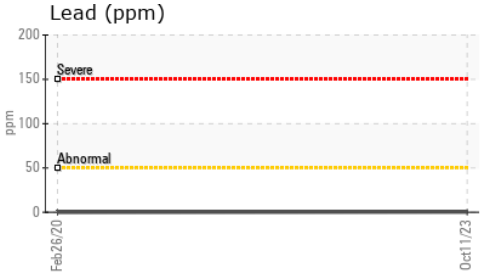
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | *no image* | *no image* | *no image* |
| Bottom | | | *no image* | *no image* | *no image* |

## GRAPHS

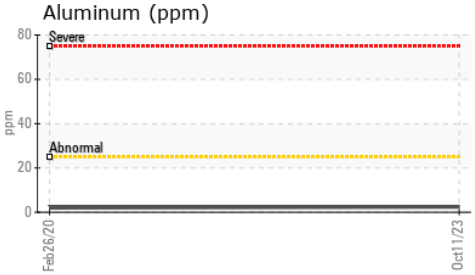
Iron (ppm)



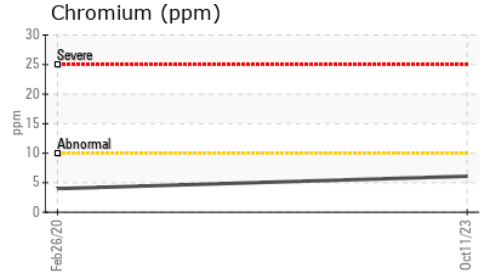

Lead (ppm)



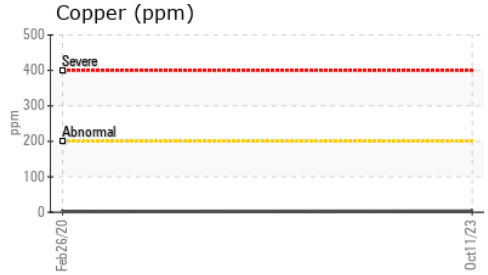

Aluminum (ppm)



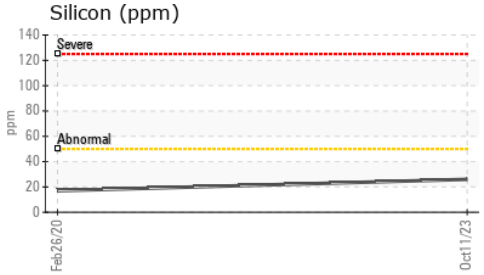

Chromium (ppm)



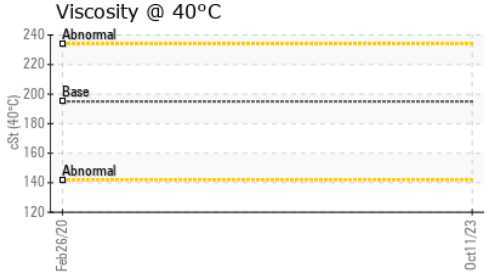

Copper (ppm)



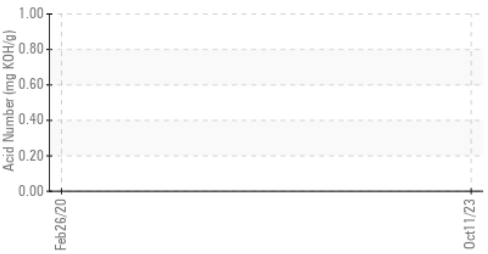

Silicon (ppm)




Viscosity @ 40°C




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PCA0090503
**Lab Number** : 05978392
**Unique Number** : 10695687
**Test Package** : MOB 2

**Received** : 13 Oct 2023
**Diagnosed** : 19 Oct 2023
**Diagnostician** : Jonathan Hester

*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)*

**WIN Waste Innovations - Shop # - Taunton**
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TAUNTON, MA
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Contact: Dave Wilson
dwilson@win-waste.com
T:
F:

Report Id: WINTAU [WUSCAR] 05978392 (Generated: 10/20/2023 08:02:44) Rev: 2

Submitted By: MATT MANOLI