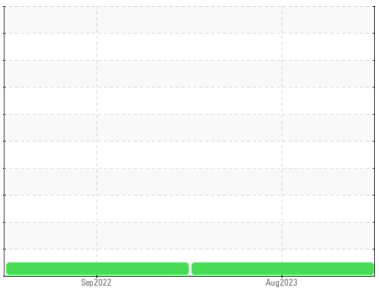
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
## 48945658 (S/N 118)
Component
**Hydraulic System**
Fluid
**MOBIL DTE 24 (--- GAL)**

## DIAGNOSIS

**Recommendation**
Resample at the next service interval to monitor.

**Wear**
All component wear rates are normal.

**Contamination**
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

**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 | | **WC0844302** | WC0731036 | --- |
| Sample Date | | Client Info | | **25 Aug 2023** | 26 Sep 2022 | --- |
| Machine Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Age | hrs | Client Info | | **0** | 0 | --- |
| Oil Changed | | Client Info | | **N/A** | N/A | --- |
| Sample Status | | | | **NORMAL** | NORMAL | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| PQ | | ASTM D8184 | | **11** | --- | --- |
| Iron | ppm | ASTM D5185m | >150 | **2** | 2 | --- |
| Chromium | ppm | ASTM D5185m | >10 | **0** | 0 | --- |
| Nickel | ppm | ASTM D5185m | >10 | **0** | 0 | --- |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Silver | ppm | ASTM D5185m | | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | **0** | <1 | --- |
| Lead | ppm | ASTM D5185m | >100 | **<1** | <1 | --- |
| Copper | ppm | ASTM D5185m | >50 | **4** | 16 | --- |
| Tin | ppm | ASTM D5185m | >10 | **<1** | 1 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | 0 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **0** | 0 | --- |
| Barium | ppm | ASTM D5185m | | **2** | 2 | --- |
| Molybdenum | ppm | ASTM D5185m | | **0** | <1 | --- |
| Manganese | ppm | ASTM D5185m | | **0** | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | **<1** | <1 | --- |
| Calcium | ppm | ASTM D5185m | | **112** | 110 | --- |
| Phosphorus | ppm | ASTM D5185m | | **443** | 451 | --- |
| Zinc | ppm | ASTM D5185m | | **24** | 40 | --- |
| Sulfur | ppm | ASTM D5185m | | **1720** | 1756 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >50 | **8** | 8 | --- |
| Sodium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 1 | --- |

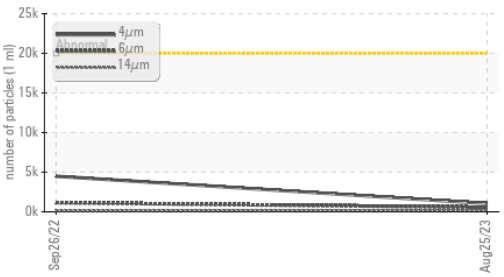
| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >20000 | **1045** | 4491 | --- |
| Particles >6µm | | ASTM D7647 | >5000 | **565** | 1146 | --- |
| Particles >14µm | | ASTM D7647 | >640 | **197** | 129 | --- |
| Particles >21µm | | ASTM D7647 | >160 | **69** | 25 | --- |
| Particles >38µm | | ASTM D7647 | >40 | **4** | 1 | --- |
| Particles >71µm | | ASTM D7647 | >10 | **0** | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | **17/16/15** | 19/17/14 | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.089** | 0.175 | --- |

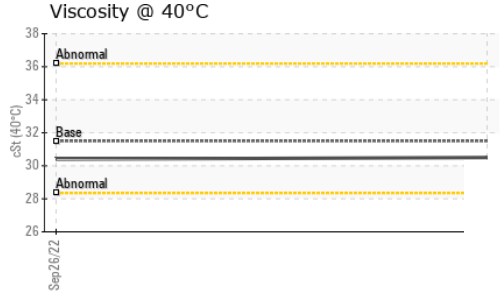
# OIL ANALYSIS REPORT

PQ

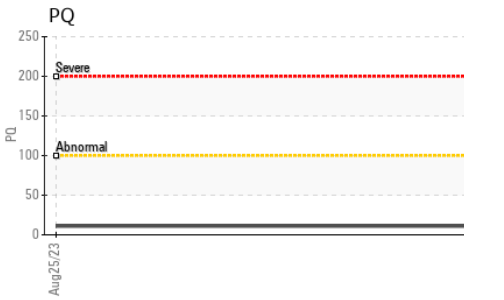

Particle Trend



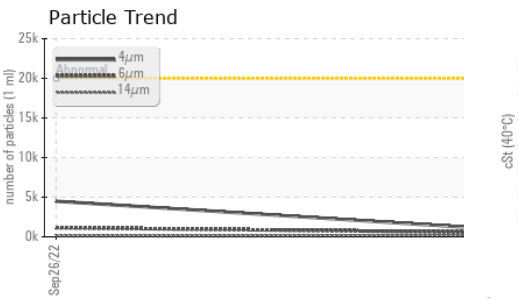

Viscosity @ 40°C




PQ

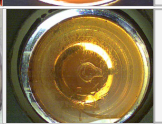



Particle Trend



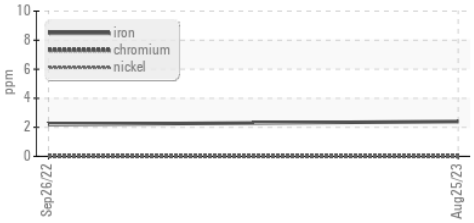

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | LIGHT | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Debris | scalar | *Visual | NONE | **NONE** | VLITE | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.1 | **NEG** | NEG | --- |
| Free Water | scalar | *Visual | | **NEG** | NEG | --- |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 31.5 | **30.5** | 30.4 | --- |

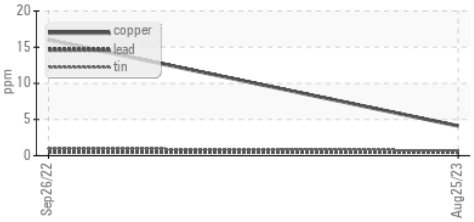
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  |  | *no image* |
| Bottom | | |  |  | *no image* |

## GRAPHS

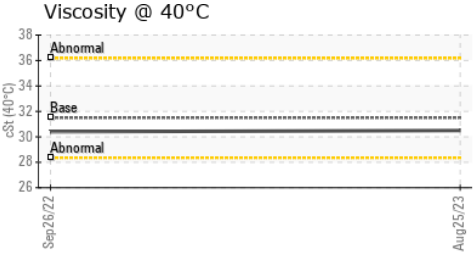
Ferrous Alloys



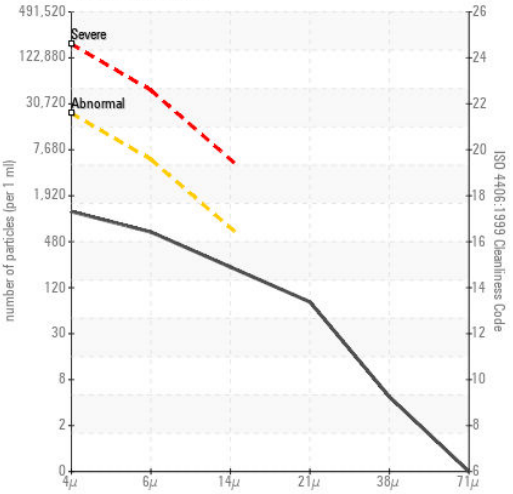

Non-ferrous Metals



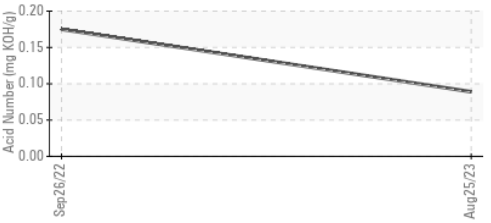

Viscosity @ 40°C




Particle Count




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0844302 **Received** : 30 Aug 2023
**Lab Number** : 05939051 **Diagnosed** : 06 Sep 2023
**Unique Number** : 10629663 **Diagnostician** : Doug Bogart
**Test Package** : PLANT

*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)*

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