# OIL ANALYSIS REPORT

Sample Rating Trend


**SEDIMENT**

Machine Id
**10681**
Component
**Transmission (Auto)**
Fluid
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

**Recommendation**

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

Moderate concentration of visible dirt/debris present in the fluid. There is a moderate amount of visible silt present in the sample.

**Fluid Condition**

The condition of the fluid is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **GFL0012975** | --- | --- |
| Sample Date | | Client Info | | **19 Sep 2021** | --- | --- |
| Machine Age | hrs | Client Info | | **0** | --- | --- |
| Oil Age | hrs | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | --- | --- |
| Sample Status | | | | **MARGINAL** | --- | --- |

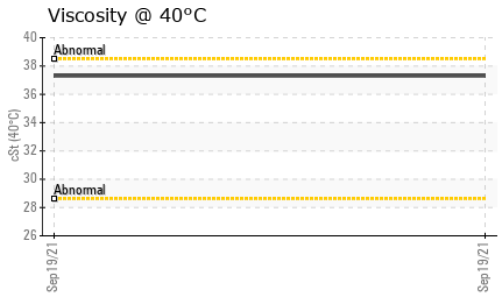
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >160 | **79** | --- | --- |
| Chromium | ppm | ASTM D5185m | >5 | **<1** | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | **0** | --- | --- |
| Titanium | ppm | ASTM D5185m | | **<1** | --- | --- |
| Silver | ppm | ASTM D5185m | >5 | **0** | --- | --- |
| Aluminum | ppm | ASTM D5185m | >50 | **27** | --- | --- |
| Lead | ppm | ASTM D5185m | >50 | **8** | --- | --- |
| Copper | ppm | ASTM D5185m | >225 | **6** | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | **2** | --- | --- |
| Antimony | ppm | ASTM D5185m | | **0** | --- | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185m | | **0** | --- | --- |

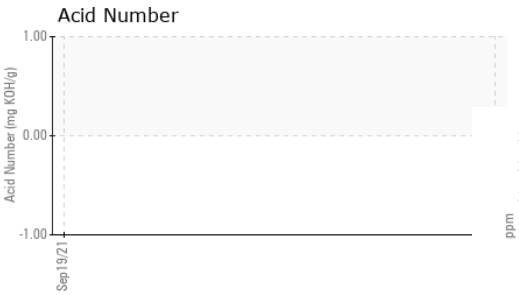
| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | | **140** | --- | --- |
| Barium | ppm | ASTM D5185m | | **0** | --- | --- |
| Molybdenum | ppm | ASTM D5185m | | **2** | --- | --- |
| Manganese | ppm | ASTM D5185m | | **<1** | --- | --- |
| Magnesium | ppm | ASTM D5185m | | **17** | --- | --- |
| Calcium | ppm | ASTM D5185m | | **88** | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | **315** | --- | --- |
| Zinc | ppm | ASTM D5185m | | **26** | --- | --- |
| Sulfur | ppm | ASTM D5185m | | **762** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >20 | **10** | --- | --- |
| Sodium | ppm | ASTM D5185m | | **3** | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | --- | --- |

| 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 | **MODER** | --- | --- |
| Debris | scalar | *Visual | NONE | **MODER** | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | --- | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | --- | --- |
| Odor | scalar | *Visual | NORML | **NORML** | --- | --- |
| Emulsified Water | scalar | *Visual | >0.1 | **NEG** | --- | --- |
| Free Water | scalar | *Visual | | **NEG** | --- | --- |

# OIL ANALYSIS REPORT

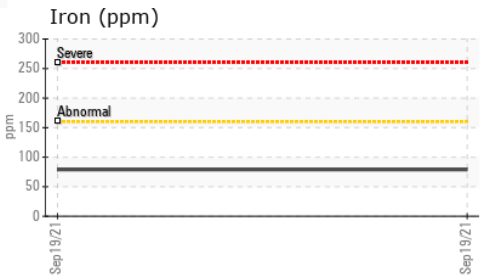


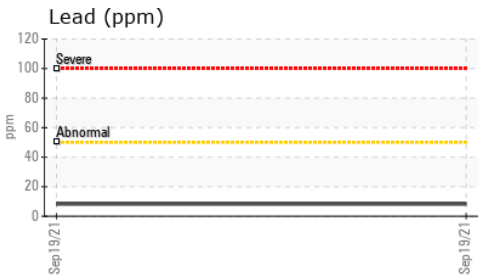



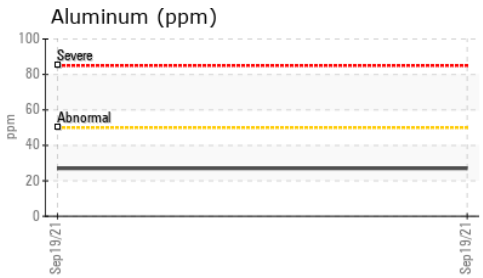

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | | **37.3** | --- | --- |

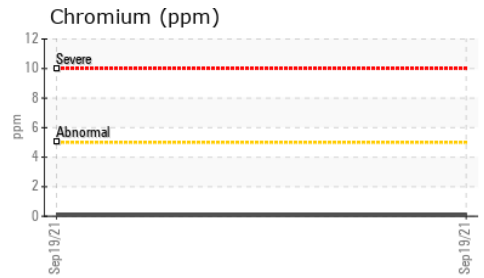
| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | | *no image* | *no image* | *no image* |
| Bottom | | | *no image* | *no image* | *no image* |

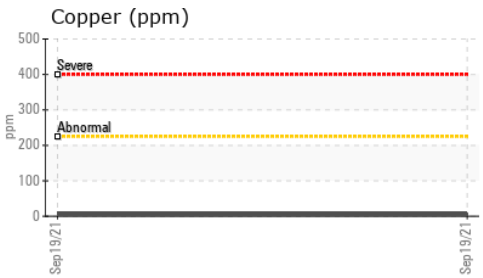
## GRAPHS

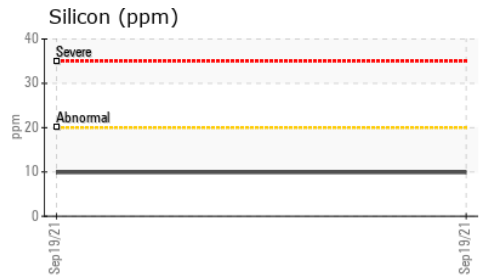


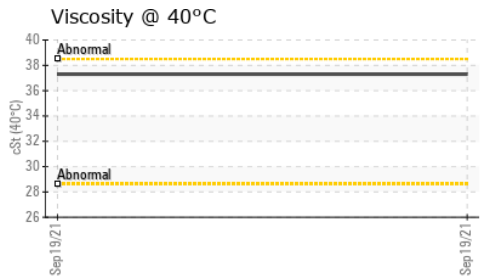



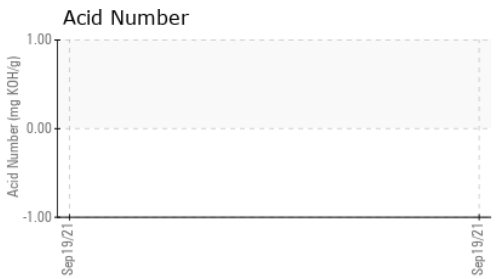




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : GFL0012975
**Lab Number** : 05354623
**Unique Number** : 9668716
**Test Package** : MOB 2

**Received** : 20 Sep 2021
**Diagnosed** : 22 Sep 2021
**Diagnostician** : Doug Bogart

*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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