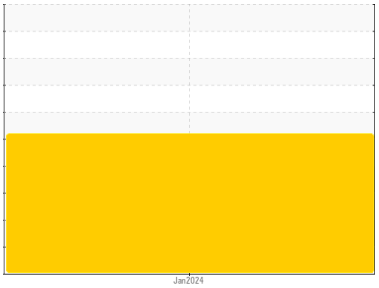
# OIL ANALYSIS REPORT

Sample Rating Trend




ISO

Machine Id
**OR1215**
Component
**Hydraulic System**
Fluid
**AW HYDRAULIC OIL ISO 32 (--- GAL)**

## DIAGNOSIS

**Recommendation**

Vérifier les scelles et/ou les filters pour des points d'entrée des contaminants. Le reniflard d`air doit être réparé. S`il n`est pas classé, nous vous recommandons de le remplacer par un reniflard à air adapté au micron et / ou au dessicant. Si évalué, nous vous recommandons de réparer / remplacer le reniflard. Nous recommandons le remplacement des filtres de ce composant. Confirmez la source du lubrifiant utilisé pour l'appoint/remplissage. Échantillonner de nouveau dans 30 à 45 jours afin de contrôler la situation. Le fluide était spécifié comme (GENERIC) AW HYDRAULIC OIL ISO 32, toutefois, une comparaison avec d'autres fluides indiqu que ce fluide est du SAE 75W80 Tractor TDH Fluid. Veuillez confirmer la viscosité de l`huile et veuillez préciser la marque de votre prochain échantillon.

**Wear**

Le taux de fer est anormal. Le bas indice ferreux (PQ) indique que l'usure ferreuse est due à de la corrosion.

**Contamination**

Il y a une grande quantité de limon (particules de 4 à 14 microns) dans l`huile.

**Fluid Condition**

La viscosité de l'échantillon se situe dans la portée de l'SAE 75W80; nous vous conseillons de vérifier. Ceci, en plus des niveaux d`additifs, indique que la marque ou le type d`huile ne correspond pas à ce qui a été signalé. l`huile n'est plus en état de service en raison d'une usure anomale et/ou sévère.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **GFL0067506** | --- | --- |
| Sample Date | | Client Info | | **02 Jan 2024** | --- | --- |
| Machine Age | hrs | Client Info | | **2613** | --- | --- |
| Oil Age | hrs | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | --- | --- |
| Sample Status | | | | **SEVERE** | --- | --- |

| CONTAMINATION | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Water | WC Method | >0.1 | **NEG** | --- | --- |

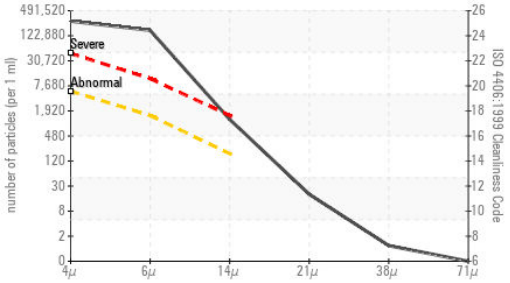
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| PQ | | ASTM D8184* | | **52** | --- | --- |
| Iron | ppm | ASTM D5185(m) | >20 | ▲ **87** | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >10 | **<1** | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >10 | **0** | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Silver | ppm | ASTM D5185(m) | | **2** | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >10 | **2** | --- | --- |
| Lead | ppm | ASTM D5185(m) | >10 | **1** | --- | --- |
| Copper | ppm | ASTM D5185(m) | >75 | **5** | --- | --- |
| Tin | ppm | ASTM D5185(m) | >10 | **0** | --- | --- |
| Antimony | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | **0** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185(m) | 5 | **38** | --- | --- |
| Barium | ppm | ASTM D5185(m) | 5 | **0** | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | 5 | **0** | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | **<1** | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | 25 | **18** | --- | --- |
| Calcium | ppm | ASTM D5185(m) | 200 | **2491** | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | 300 | **891** | --- | --- |
| Zinc | ppm | ASTM D5185(m) | 370 | **1033** | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | 2500 | **2664** | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | **<1** | --- | --- |

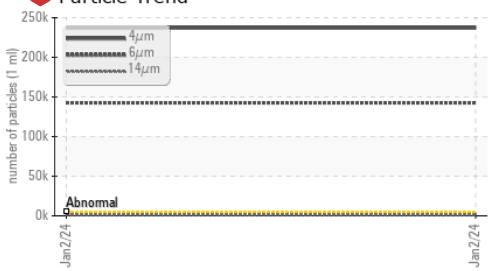
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | >20 | **9** | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | **3** | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **1** | --- | --- |

# OIL ANALYSIS REPORT

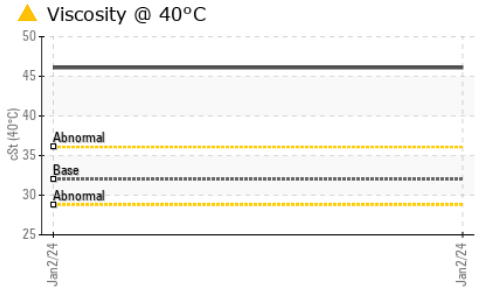
Particle Count



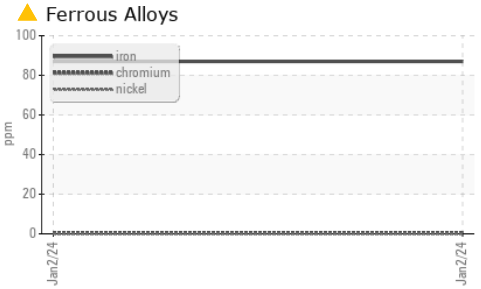

Particle Trend



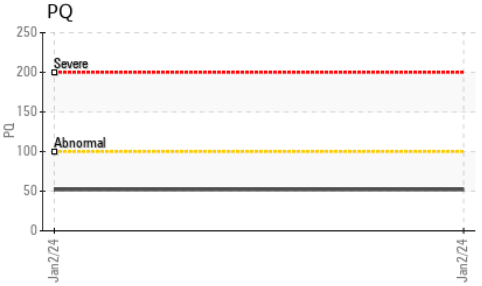

Viscosity @ 40°C




Ferrous Alloys




PQ




| FLUID CLEANLINESS | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Particles >4µm | ASTM D7647 | >5000 | **237063** | --- | --- |
| Particles >6µm | ASTM D7647 | >1300 | **142575** | --- | --- |
| Particles >14µm | ASTM D7647 | >160 | **1053** | --- | --- |
| Particles >21µm | ASTM D7647 | >40 | **17** | --- | --- |
| Particles >38µm | ASTM D7647 | >10 | **1** | --- | --- |
| Particles >71µm | ASTM D7647 | >3 | **0** | --- | --- |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | **25/24/17** | --- | --- |

| 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 | **VLITE** | --- | --- |
| 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* | >0.1 | **NEG** | --- | --- |
| Free Water | scalar | Visual* | | **NEG** | --- | --- |

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D7279(m) | 32 | **46.1** | --- | --- |

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

ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : GFL0067506
**Lab Number** : 02614062
**Unique Number** : 5723157
**Test Package** : MOB 1 ( Additional Tests: PQ, PrtCount )

**Received** : 07 Feb 2024
**Tested** : 07 Feb 2024
**Diagnosed** : 08 Feb 2024 - Kevin Marson

*To discuss this sample report, contact Customer Service at 1-800-268-2131.*
*Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*
*Validity of results and interpretation are based on the sample and information as supplied.*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