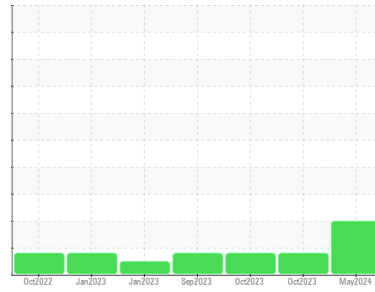




OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Machine Id
701110
 Component
Transmission (Auto)
 Fluid
CASTROL TRANSYND 668 (--- GAL)

DIAGNOSIS

Recommendation

Nous vous recommandons de vérifier la présence de particules métalliques visibles dans le fluide. Nous vous recommandons de vidanger le fluide de ce composant si vous ne l'avez pas déjà fait. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

Wear

La présence du titane est marginale. Présence d'une faible concentration de métal visible. Usure des engrenages.

Contamination

Il n'y a aucun indice de contamination dans le fluide.

Fluid Condition

le fluide n'est plus en état de service en raison d'une usure anormale et/ou sévère.

SAMPLE INFORMATION

| | method | limit/base | current | history1 | history2 |
|---------------|-------------|-------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | GFL0107546 | GFL0096381 | GFL0096418 |
| Sample Date | Client Info | | 02 May 2024 | 30 Oct 2023 | 25 Oct 2023 |
| Machine Age | kms | Client Info | 167197 | 159154 | 158811 |
| Oil Age | kms | Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | | N/A | Not Changd | Not Changd |
| Sample Status | | | ABNORMAL | ABNORMAL | ABNORMAL |

CONTAMINATION

| | 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 D5185(m) | >230 | 6 | 111 | 101 |
| Chromium | ppm | ASTM D5185(m) | >2 | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | >2 | ▲ 2 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | >5 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >65 | 1 | ▲ 86 | ▲ 80 |
| Lead | ppm | ASTM D5185(m) | >55 | 0 | 21 | 19 |
| Copper | ppm | ASTM D5185(m) | >85 | 1 | 30 | 28 |
| Tin | ppm | ASTM D5185(m) | >5 | 0 | 3 | 2 |
| Antimony | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |

ADDITIVES

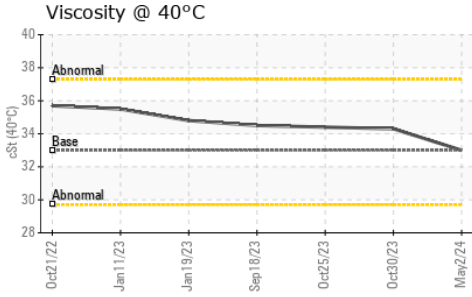
| | method | limit/base | current | history1 | history2 | |
|------------|--------|---------------|---------|--------------|----------|------|
| Boron | ppm | ASTM D5185(m) | | 56 | 73 | 67 |
| Barium | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | <1 | 1 | 1 |
| Calcium | ppm | ASTM D5185(m) | | 123 | 105 | 96 |
| Phosphorus | ppm | ASTM D5185(m) | | 206 | 252 | 223 |
| Zinc | ppm | ASTM D5185(m) | | 2 | 6 | 6 |
| Sulfur | ppm | ASTM D5185(m) | | 1363 | 1553 | 1180 |
| Lithium | ppm | ASTM D5185(m) | | <1 | <1 | <1 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|---------------|---------|-----------|----------|----|
| Silicon | ppm | ASTM D5185(m) | >20 | 8 | 15 | 13 |
| Sodium | ppm | ASTM D5185(m) | | 31 | 7 | 7 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | 3 | 4 |



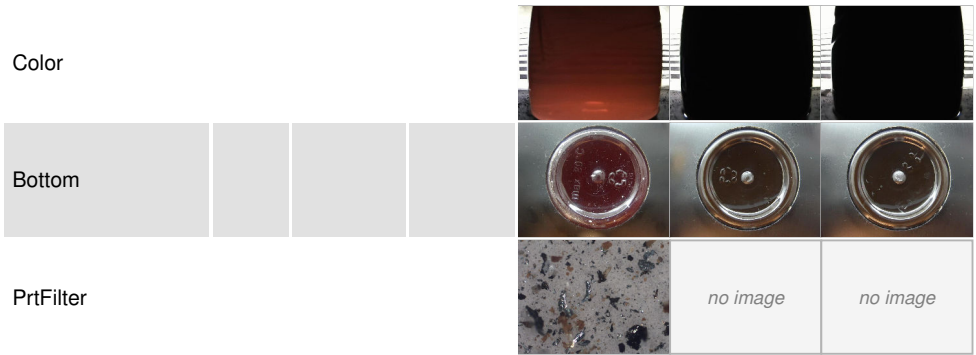
OIL ANALYSIS REPORT



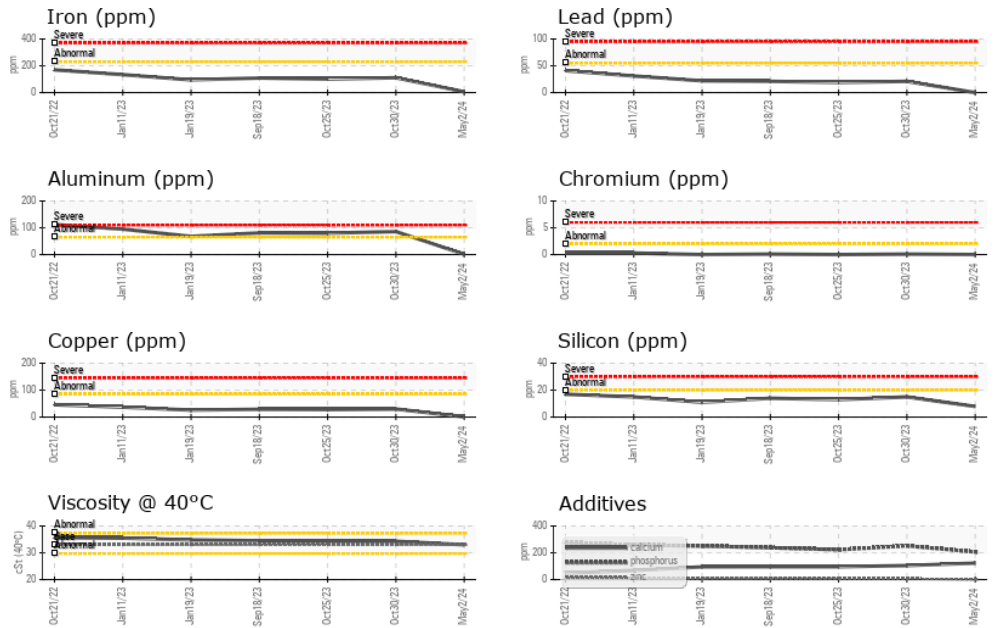
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | Visual* | NONE | ▲ LIGHT | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE |
| Precipitate | scalar | Visual* | NONE | NONE | NONE |
| Silt | scalar | Visual* | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE |
| 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 D7279(m) | 33 | 33.0 | 34.3 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 747 - GMA - Solid Waste**
Sample No. : GFL0107546 **Received** : 07 May 2024 **4 Chemin du Tremblay,**
Lab Number : **02633910** **Tested** : 09 May 2024 **Boucherville, QC**
Unique Number : 5775063 **Diagnosed** : 09 May 2024 - Kevin Marson **CA J4B 6Z5**
Test Package : MOB 1 (Additional Tests: BottomAnalysis, FILTERPATCH) **Contact: Steve Voyer**
svoyer@matrec.ca

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.