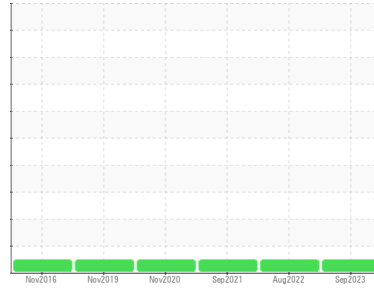


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**DOUANE HEROMAN [205673]**  
Machine Id  
**ISUZU GD10589E**

Component  
**Diesel Engine**  
Fluid  
**APRIL SUPERFLO GOLD K 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Il n'y a aucun indice de contamination dans l'huile.

### Fluid Condition

L'état de l'huile est acceptable pour la durée de service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2    |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number      | Client Info |             |            | <b>WA0019876</b>   | GD0005791   | GD0004992   |
| Sample Date        | Client Info |             |            | <b>27 Sep 2023</b> | 16 Aug 2022 | 07 Sep 2021 |
| Machine Age        | hrs         | Client Info |            | <b>1944</b>        | 1881        | 1826        |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | 26          |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | Changed     | Changed     |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| CONTAMINATION |           | method | limit/base | current        | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel          | WC Method | >5     |            | <b>&lt;1.0</b> | <1.0     | <1.0     |
| Glycol        | WC Method |        |            | <b>NEG</b>     | NEG      | NEG      |

| WEAR METALS |     | method        | limit/base | current      | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185(m) | >100       | <b>3</b>     | 2        | <1       |
| Chromium    | ppm | ASTM D5185(m) | >20        | <b>&lt;1</b> | 0        | 0        |
| Nickel      | ppm | ASTM D5185(m) | >4         | <b>0</b>     | 0        | <1       |
| Titanium    | ppm | ASTM D5185(m) |            | <b>0</b>     | <1       | 0        |
| Silver      | ppm | ASTM D5185(m) | >3         | <b>&lt;1</b> | 0        | 0        |
| Aluminum    | ppm | ASTM D5185(m) | >20        | <b>&lt;1</b> | <1       | <1       |
| Lead        | ppm | ASTM D5185(m) | >40        | <b>1</b>     | 2        | <1       |
| Copper      | ppm | ASTM D5185(m) | >330       | <b>2</b>     | 2        | <1       |
| Tin         | ppm | ASTM D5185(m) | >15        | <b>&lt;1</b> | <1       | <1       |
| Antimony    | ppm | ASTM D5185(m) |            | <b>0</b>     | <1       | 0        |
| Vanadium    | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Beryllium   | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |

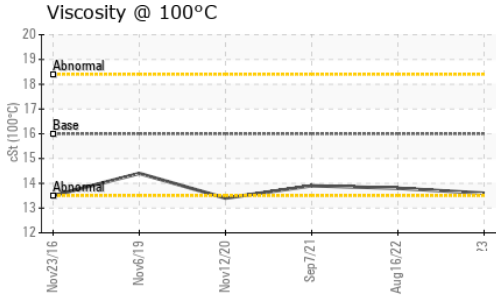
| ADDITIVES  |     | method        | limit/base | current      | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185(m) | 34         | <b>2</b>     | 1        | 2        |
| Barium     | ppm | ASTM D5185(m) | 0          | <b>&lt;1</b> | 0        | 0        |
| Molybdenum | ppm | ASTM D5185(m) | 70         | <b>60</b>    | 57       | 42       |
| Manganese  | ppm | ASTM D5185(m) |            | <b>0</b>     | <1       | 0        |
| Magnesium  | ppm | ASTM D5185(m) | 640        | <b>1007</b>  | 959      | 848      |
| Calcium    | ppm | ASTM D5185(m) | 1410       | <b>1085</b>  | 1062     | 924      |
| Phosphorus | ppm | ASTM D5185(m) | 1020       | <b>1045</b>  | 1105     | 948      |
| Zinc       | ppm | ASTM D5185(m) | 1170       | <b>1223</b>  | 1190     | 1091     |
| Sulfur     | ppm | ASTM D5185(m) | 2930       | <b>2680</b>  | 2709     | 2315     |
| Lithium    | ppm | ASTM D5185(m) |            | <b>&lt;1</b> | <1       | <1       |

| CONTAMINANTS |     | method        | limit/base | current  | history1 | history2 |
|--------------|-----|---------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185(m) | >25        | <b>4</b> | 3        | 2        |
| Sodium       | ppm | ASTM D5185(m) |            | <b>2</b> | 2        | 1        |
| Potassium    | ppm | ASTM D5185(m) | >20        | <b>0</b> | 0        | <1       |

| INFRA-RED |          | method      | limit/base | current     | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot %    | %        | ASTM D7844* | >3         | <b>0</b>    | 0        | 0        |
| Nitration | Abs/cm   | ASTM D7624* | >20        | <b>4.9</b>  | 5.1      | 5.0      |
| Sulfation | Abs/.1mm | ASTM D7415* | >30        | <b>18.0</b> | 18.8     | 18.8     |

| FLUID DEGRADATION |          | method      | limit/base | current     | history1 | history2 |
|-------------------|----------|-------------|------------|-------------|----------|----------|
| Oxidation         | Abs/.1mm | ASTM D7414* | >25        | <b>13.4</b> | 14.4     | 14.6     |

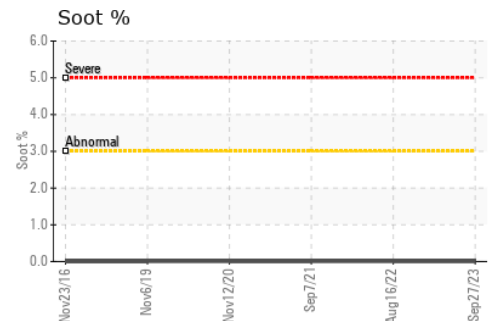
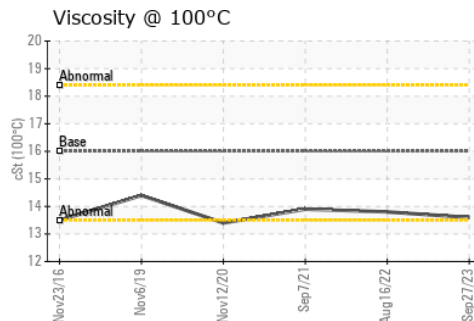
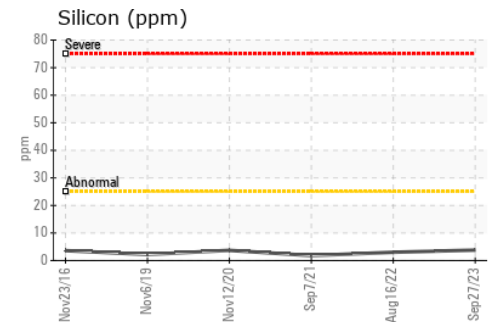
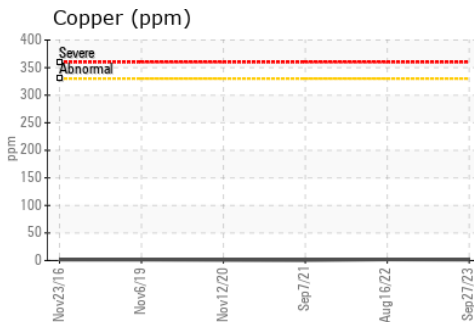
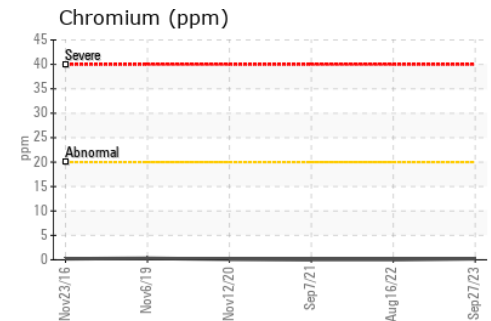
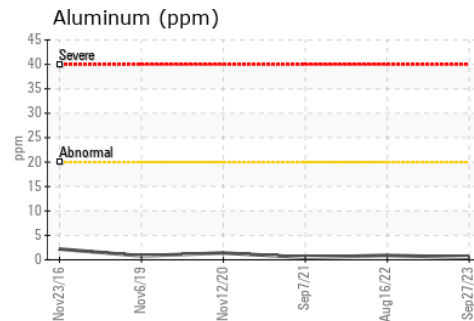
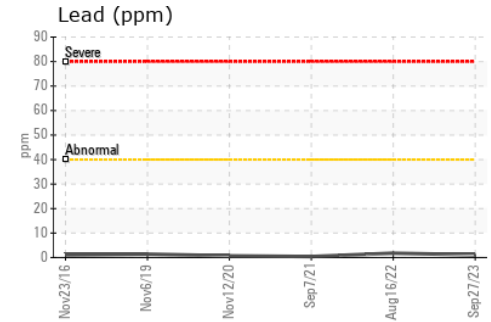
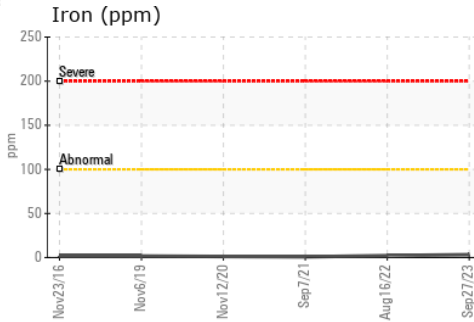
# OIL ANALYSIS REPORT



| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Emulsified Water | scalar | Visual*    | >0.2    | NEG      | NEG      |
| Free Water       | scalar | Visual*    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base    | current | history1 | history2 |
|------------------|--------|---------------|---------|----------|----------|
| Visc @ 100°C     | cSt    | ASTM D7279(m) | 16.0    | 13.6     | 13.8     |

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0019876  
**Lab Number** : 02586258  
**Unique Number** : 5655324  
**Test Package** : MOB 1

**Received** : 03 Oct 2023  
**Diagnosed** : 03 Oct 2023  
**Diagnostician** : Wes Davis

**Generatrice Drummond**  
 243 rue des ARTISANS  
 SAINT-GERMAIN-DE-GRANTHAM, QC  
 CA J0C 1K0  
 Contact: Valerie Poirier  
 poiervalerie@generatricedrummond.com  
 T: (819)398-6811  
 F: (819)398-7022

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.