



# RAPPORT D'ANALYSE D'HUILE

|                |                |
|----------------|----------------|
| USURE          | <b>ANORMAL</b> |
| CONTAMINATION  | <b>NORMAL</b>  |
| ÉTAT DU FLUIDE | <b>NORMAL</b>  |



Secteur  
**[406589]**  
 Identité de la machine  
**931043**  
 Composant  
**Moteur diesel**  
 Fluide  
**RDL-3647 (--- GAL)**

## RECOMMANDATION

Nous vous recommandons de vidanger l'huile 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.

| Test                | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|---------------------|-----|-------------|-----------|--------------------|-------------|----------|
| Numéro d'échant.    |     | Client Info |           | <b>CU0021563</b>   | PC0067341   | ---      |
| Date d'échant.      |     | Client Info |           | <b>24 Oct 2023</b> | 21 Apr 2023 | ---      |
| Âge d la Machine    | kms | Client Info |           | <b>0</b>           | 61040       | ---      |
| Âge de l'huile      | kms | Client Info |           | <b>0</b>           | 0           | ---      |
| Âge du filtre       | kms | Client Info |           | <b>0</b>           | 0           | ---      |
| Huile changée       |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Filtre changé       |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Statut de l'échant. |     |             |           | <b>ABNORMAL</b>    | NORMAL      | ---      |

## USURE

Usure de piston.

|           |     |               |      |              |    |     |
|-----------|-----|---------------|------|--------------|----|-----|
| Fer       | ppm | ASTM D5185(m) | >120 | <b>41</b>    | 46 | --- |
| Chrome    | ppm | ASTM D5185(m) | >20  | <b>4</b>     | 3  | --- |
| Nickel    | ppm | ASTM D5185(m) | >5   | <b>2</b>     | 2  | --- |
| Titane    | ppm | ASTM D5185(m) | >2   | <b>0</b>     | <1 | --- |
| Argent    | ppm | ASTM D5185(m) | >2   | <b>&lt;1</b> | 0  | --- |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>▲ 40</b>  | 31 | --- |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>6</b>     | 4  | --- |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>4</b>     | 4  | --- |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>2</b>     | 2  | --- |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | --- |

## CONTAMINATION

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

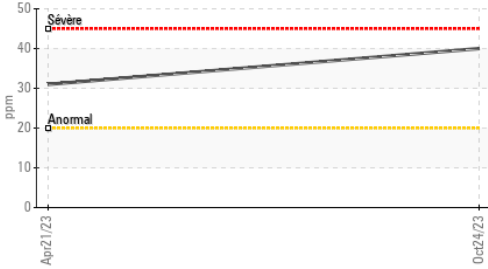
|                |          |               |      |                |      |     |
|----------------|----------|---------------|------|----------------|------|-----|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>14</b>      | 9    | --- |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>7</b>       | 6    | --- |
| Essence        |          | WC Method     | >3.0 | <b>&lt;1.0</b> | <1.0 | --- |
| Glycol         | %        | ASTM D7922*   |      | <b>0.0</b>     | 0.0  | --- |
| % de suie      | %        | ASTM D7844*   | >4   | <b>0</b>       | 0    | --- |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>12.2</b>    | 12.4 | --- |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>28.8</b>    | 27.7 | --- |
| Eau émulsifiée | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG  | --- |

## ÉTAT DU FLUIDE

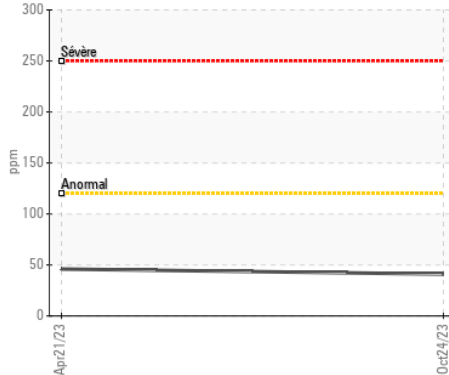
L'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

|            |          |               |      |              |      |     |
|------------|----------|---------------|------|--------------|------|-----|
| Sodium     | ppm      | ASTM D5185(m) |      | <b>13</b>    | 14   | --- |
| Bore       | ppm      | ASTM D5185(m) | 50   | <b>7</b>     | 6    | --- |
| Baryum     | ppm      | ASTM D5185(m) | 5    | <b>&lt;1</b> | 0    | --- |
| Molybdène  | ppm      | ASTM D5185(m) | 50   | <b>63</b>    | 64   | --- |
| Manganèse  | ppm      | ASTM D5185(m) | 0    | <b>1</b>     | 2    | --- |
| Magnésium  | ppm      | ASTM D5185(m) | 560  | <b>664</b>   | 706  | --- |
| Calcium    | ppm      | ASTM D5185(m) | 1510 | <b>1836</b>  | 1922 | --- |
| Phosphore  | ppm      | ASTM D5185(m) | 780  | <b>870</b>   | 935  | --- |
| Zinc       | ppm      | ASTM D5185(m) | 870  | <b>1025</b>  | 1024 | --- |
| Soufre     | ppm      | ASTM D5185(m) | 2040 | <b>2050</b>  | 2164 | --- |
| Oxydation  | Abs/.1mm | ASTM D7414*   | >25  | <b>25.2</b>  | 22.8 | --- |
| Visc 100°C | cSt      | ASTM D7279(m) | 15.1 | <b>14.8</b>  | 14.6 | --- |

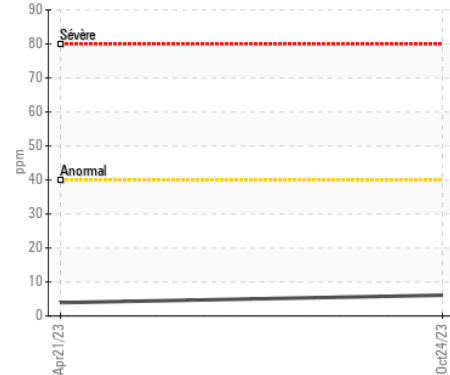
▲ Aluminium (ppm)



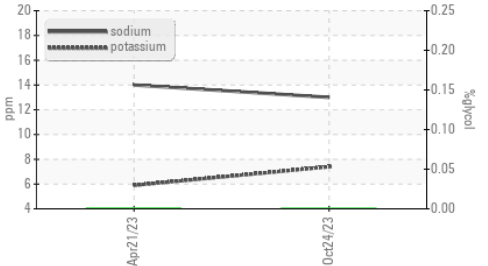
Fer (ppm)



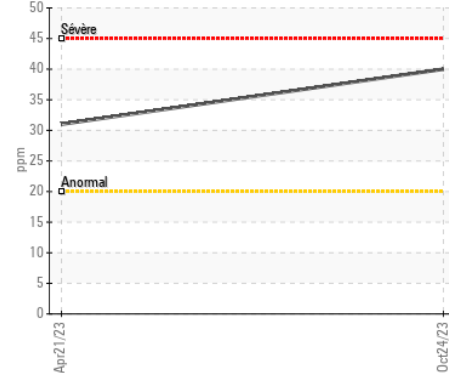
Plomb (ppm)



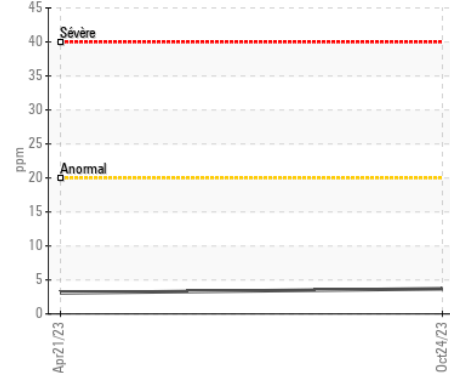
Contamination par le glycol



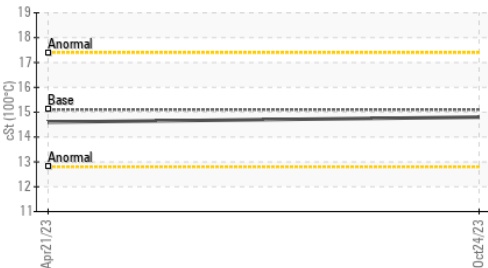
▲ Aluminium (ppm)



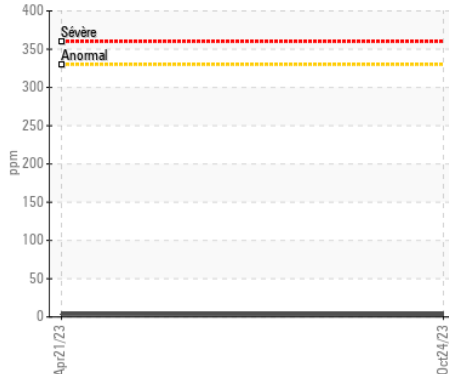
Chrome (ppm)



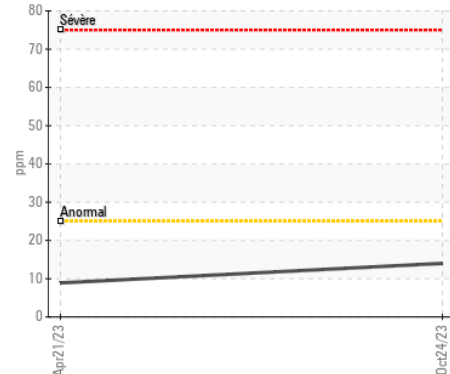
Viscosité 100°C



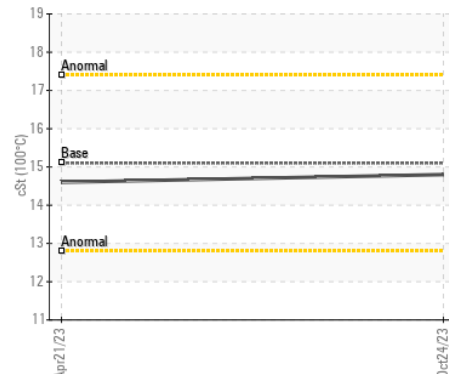
Cuivre (ppm)



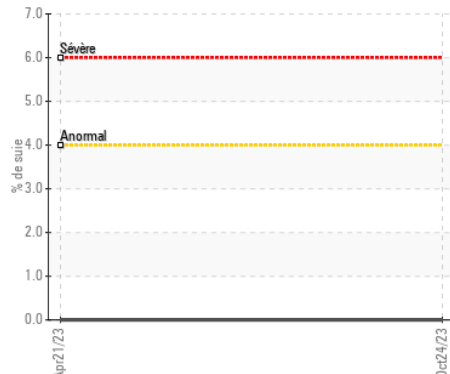
Silicium (ppm)



Viscosité 100°C



% de suie



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Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 742 - Quebec City Solid Waste  
**N° d'échantillon** : CU0021563 **Reçu** : 25 Oct 2023 5160 Jean-Talon Pierre-Bertrand Bou  
**N° de laboratoire** : 02591889 **Diagnostiqué** : 27 Oct 2023 Quebec City, QC  
**Numéro unique** : 5668968 **Diagnostiqueur** : Kevin Marson CA G2J 1B7  
**Analyse** : MOB 1 ( Additional Tests: Glycol ) Contact: Jean Audet

Pour discuter ce rapport, contacter le service à la clientèle au 1-800-268-2131.

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

La validez de los resultados y la interpretación se basan en la muestra y la información proporcionada.

Jaudet@matrec.ca

T: (418)624-0080

F: