



# VOLVO

## RAPPORT D'ANALYSE D'HUILE

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

Secteur  
**[BTBC-002390]**

Identité de la machine

**T20-11**

Composant

**Moteur diesel**

Fluide

**TOTAL FINA RUBIA TIR 7900 15W40 (--- GAL)**

### RECOMMANDATION

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

| Test                | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|---------------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Numéro d'échant.    |     | Client Info |           | <b>VCP381769</b>   | VCP352437   | VCP333643   |
| Date d'échant.      |     | Client Info |           | <b>03 Oct 2023</b> | 26 Apr 2023 | 11 Oct 2022 |
| Âge d la Machine    | kms | Client Info |           | <b>574434</b>      | 568645      | 555915      |
| Âge de l'huile      | kms | Client Info |           | <b>0</b>           | 0           | 0           |
| Âge du filtre       | kms | Client Info |           | <b>0</b>           | 0           | 0           |
| Huile changée       |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filtre changé       |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Statut de l'échant. |     |             |           | <b>NORMAL</b>      | ABNORMAL    | NORMAL      |

### USURE

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

|           |     |               |      |              |    |    |
|-----------|-----|---------------|------|--------------|----|----|
| Fer       | ppm | ASTM D5185(m) | >100 | <b>38</b>    | 64 | 30 |
| Chrome    | ppm | ASTM D5185(m) | >20  | <b>&lt;1</b> | 2  | <1 |
| Nickel    | ppm | ASTM D5185(m) | >4   | <b>0</b>     | <1 | <1 |
| Titane    | ppm | ASTM D5185(m) |      | <b>0</b>     | <1 | <1 |
| Argent    | ppm | ASTM D5185(m) | >3   | <b>&lt;1</b> | 0  | 0  |
| Aluminium | ppm | ASTM D5185(m) | >20  | <b>3</b>     | 3  | 4  |
| Plomb     | ppm | ASTM D5185(m) | >40  | <b>1</b>     | 4  | 3  |
| Cuivre    | ppm | ASTM D5185(m) | >330 | <b>4</b>     | 10 | 6  |
| Étain     | ppm | ASTM D5185(m) | >15  | <b>&lt;1</b> | <1 | <1 |
| Vanadium  | ppm | ASTM D5185(m) |      | <b>0</b>     | 0  | 0  |

### CONTAMINATION

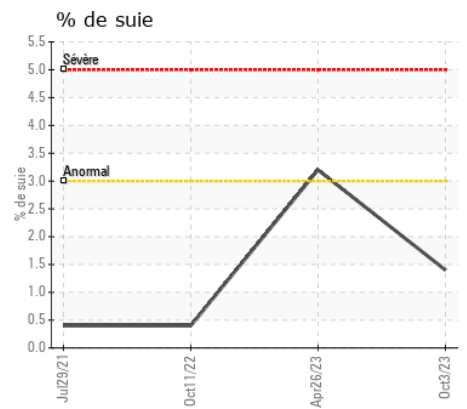
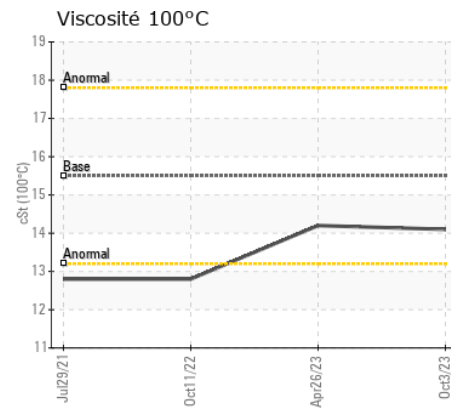
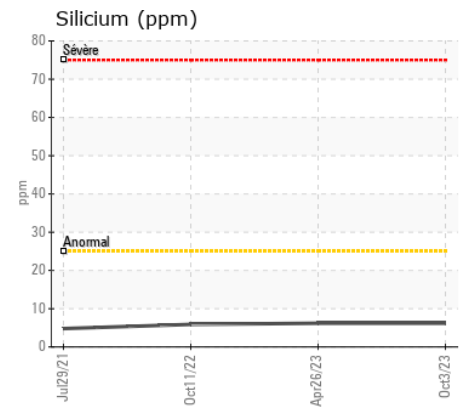
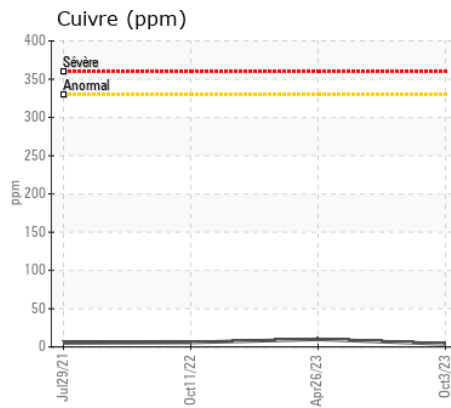
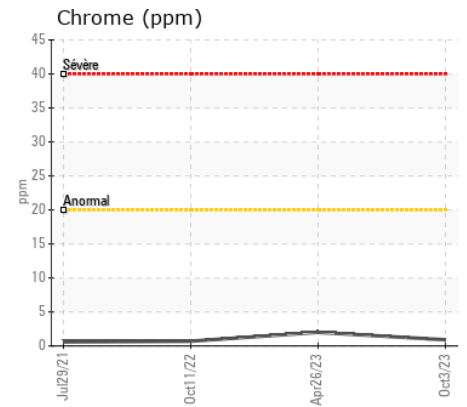
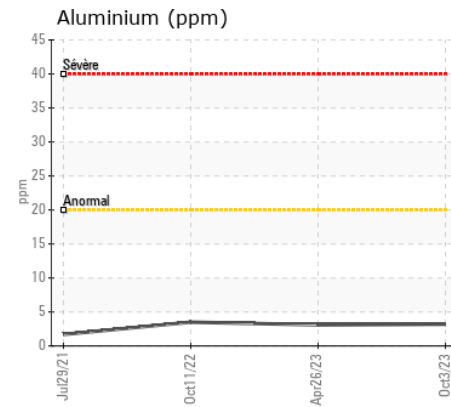
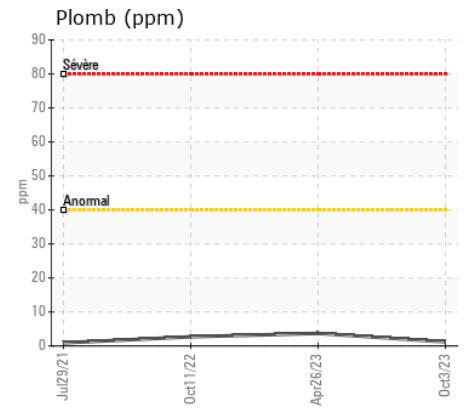
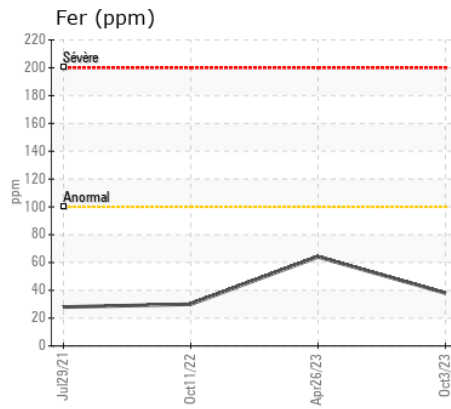
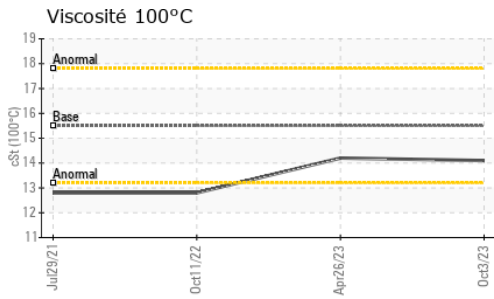
Il n'y a aucun indice de contamination dans l'huile.

|                |          |               |      |                |       |      |
|----------------|----------|---------------|------|----------------|-------|------|
| Silicium       | ppm      | ASTM D5185(m) | >25  | <b>6</b>       | 6     | 6    |
| Potassium      | ppm      | ASTM D5185(m) | >20  | <b>1</b>       | 3     | 3    |
| Essence        |          | WC Method     | >5   | <b>&lt;1.0</b> | 1.3   | <1.0 |
| Glycol         |          | WC Method     |      | <b>NEG</b>     | NEG   | NEG  |
| % de suie      | %        | ASTM D7844*   | >3   | <b>1.4</b>     | ▲ 3.2 | 0.4  |
| Nitration      | Abs/cm   | ASTM D7624*   | >20  | <b>8.8</b>     | 12.7  | 11.5 |
| Sulfatation    | Abs/.1mm | ASTM D7415*   | >30  | <b>21.1</b>    | 29.3  | 24.5 |
| Eau émulsifiée | scalar   | Visual*       | >0.2 | <b>NEG</b>     | NEG   | NEG  |

### ÉTAT DU FLUIDE

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

|            |          |               |      |              |      |      |
|------------|----------|---------------|------|--------------|------|------|
| Sodium     | ppm      | ASTM D5185(m) |      | <b>3</b>     | 5    | 5    |
| Bore       | ppm      | ASTM D5185(m) |      | <b>24</b>    | 34   | 37   |
| Baryum     | ppm      | ASTM D5185(m) |      | <b>&lt;1</b> | 0    | 0    |
| Molybdène  | ppm      | ASTM D5185(m) |      | <b>77</b>    | 63   | 53   |
| Manganèse  | ppm      | ASTM D5185(m) |      | <b>0</b>     | <1   | <1   |
| Magnésium  | ppm      | ASTM D5185(m) |      | <b>632</b>   | 1022 | 1097 |
| Calcium    | ppm      | ASTM D5185(m) | 3290 | <b>1603</b>  | 1142 | 1064 |
| Phosphore  | ppm      | ASTM D5185(m) | 1200 | <b>1028</b>  | 1097 | 1061 |
| Zinc       | ppm      | ASTM D5185(m) | 1400 | <b>1227</b>  | 1276 | 1205 |
| Soufre     | ppm      | ASTM D5185(m) | 4000 | <b>2789</b>  | 2708 | 2769 |
| Oxydation  | Abs/.1mm | ASTM D7414*   | >25  | <b>14.2</b>  | 21.6 | 20.7 |
| Visc 100°C | cSt      | ASTM D7279(m) | 15.5 | <b>14.1</b>  | 14.2 | 12.8 |



ISO 17025:2017  
Accredited  
Laboratory

**Laboratoire** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**N° d'échantillon** : VCP381769  
**N° de laboratoire** : 02590841  
**Numéro unique** : 5667920  
**Analyse** : MOB 1

**Reçu** : 23 Oct 2023  
**Diagnostiqué** : 23 Oct 2023  
**Diagnostiqueur** : Wes Davis

**TESSIER LTEE.**  
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 BAIE COMEAU, QC  
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 F: (418)296-3771

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.