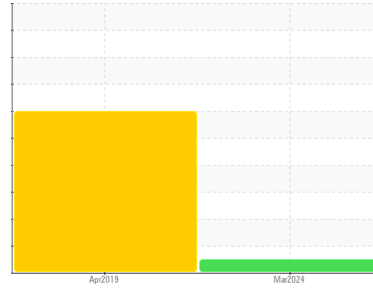


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
GD12153

Component
Diesel Engine

Fluid
DIESEL ENGINE OIL SAE 15W40 (--- LTR)

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

Le test de glycol est négatif. 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 | | | WA0021370 | GD0003639 | --- |
| Sample Date | Client Info | | | 25 Mar 2024 | 26 Apr 2019 | --- |
| Machine Age | hrs | Client Info | | 2072 | 1713 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | Client Info | | | N/A | Changed | --- |
| Sample Status | | | | NORMAL | SEVERE | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel | WC Method | >5 | | <1.0 | <1.0 | --- |
| Water | WC Method | >0.2 | | NEG | NEG | --- |

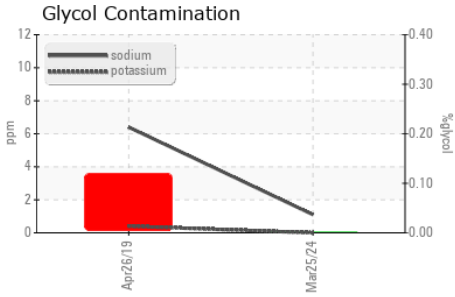
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185(m) | >100 | 1 | 4 | --- |
| Chromium | ppm | ASTM D5185(m) | >20 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | >4 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185(m) | >3 | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185(m) | >20 | <1 | 2 | --- |
| Lead | ppm | ASTM D5185(m) | >40 | 0 | 13 | --- |
| Copper | ppm | ASTM D5185(m) | >330 | <1 | 4 | --- |
| Tin | ppm | ASTM D5185(m) | >15 | 0 | <1 | --- |
| Antimony | ppm | ASTM D5185(m) | | 0 | <1 | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Beryllium | ppm | ASTM D5185(m) | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185(m) | | 0 | <1 | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185(m) | 250 | <1 | 41 | --- |
| Barium | ppm | ASTM D5185(m) | 10 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185(m) | 100 | 57 | <1 | --- |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185(m) | 450 | 967 | 41 | --- |
| Calcium | ppm | ASTM D5185(m) | 3000 | 1009 | 2187 | --- |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 985 | 939 | --- |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1136 | 1109 | --- |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 2556 | 3481 | --- |
| Lithium | ppm | ASTM D5185(m) | | <1 | 0 | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|---------------|------------|------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >25 | 4 | 3 | --- |
| Sodium | ppm | ASTM D5185(m) | >158 | 1 | 6 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | 0 | <1 | --- |
| Glycol | % | ASTM D7922* | | 0.0 | ▲ 0.12 | --- |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot % | % | ASTM D7844* | >3 | 0 | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | 5.0 | 9.7 | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 18.5 | 21.0 | --- |

OIL ANALYSIS REPORT



| FLUID DEGRADATION | method | limit/base | current | history1 | history2 |
|-------------------|--------|------------|---------|----------|----------|
|-------------------|--------|------------|---------|----------|----------|

| | | | | | | |
|-----------|----------|-------------|-----|-------------|------|-----|
| Oxidation | Abs./1mm | ASTM D7414* | >25 | 14.5 | 20.3 | --- |
|-----------|----------|-------------|-----|-------------|------|-----|

| VISUAL | method | limit/base | current | history1 | history2 |
|--------|--------|------------|---------|----------|----------|
|--------|--------|------------|---------|----------|----------|

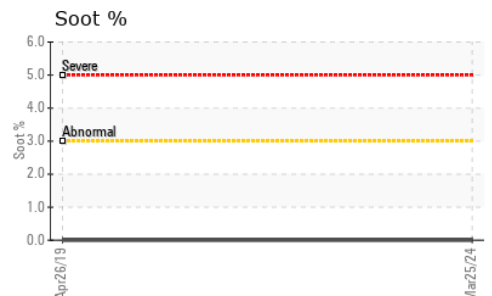
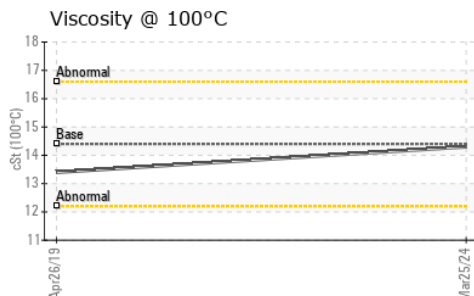
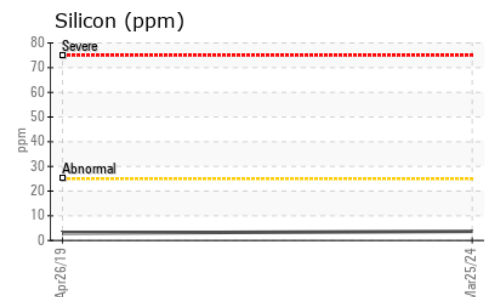
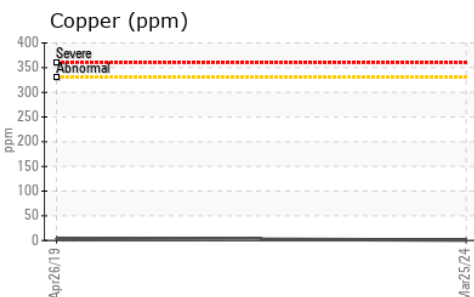
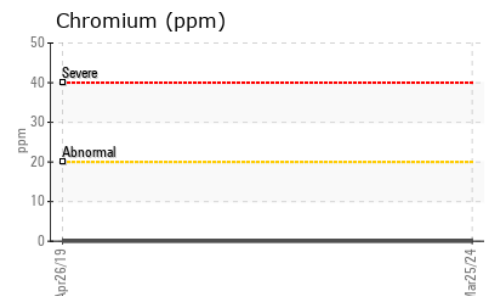
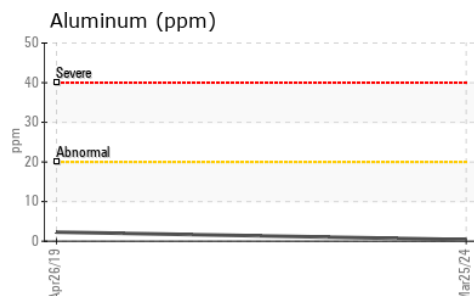
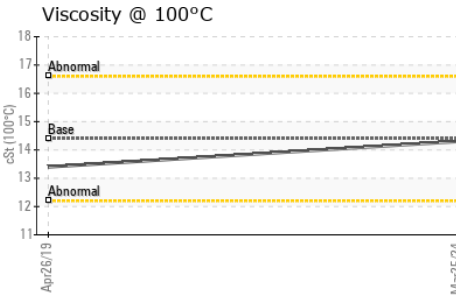
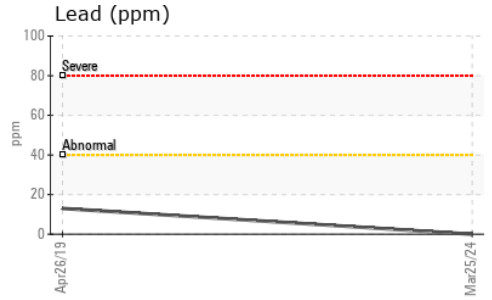
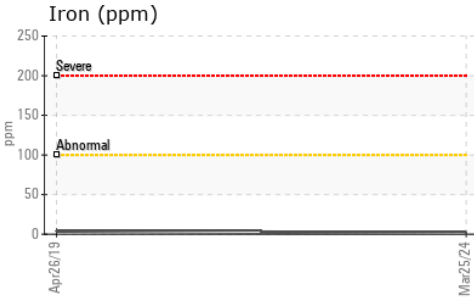
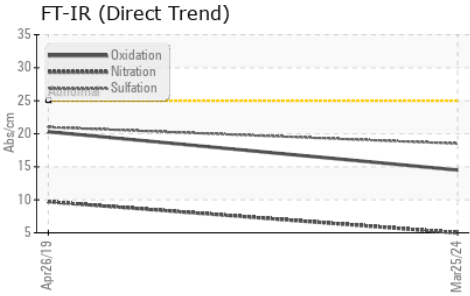
| | | | | | | |
|------------------|--------|---------|------|------------|-------|-----|
| Emulsified Water | scalar | Visual* | >0.2 | NEG | ▲ .2% | --- |
|------------------|--------|---------|------|------------|-------|-----|

| | | | | | | |
|------------|--------|---------|--|------------|-----|-----|
| Free Water | scalar | Visual* | | NEG | NEG | --- |
|------------|--------|---------|--|------------|-----|-----|

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
|------------------|--------|------------|---------|----------|----------|

| | | | | | | |
|--------------|-----|---------------|------|-------------|------|-----|
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.4 | 14.3 | 13.4 | --- |
|--------------|-----|---------------|------|-------------|------|-----|

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021370
Lab Number : 02626930
Unique Number : 5760062
Test Package : MOB 1

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 poiervalerie@generatricedrummond.com
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 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.