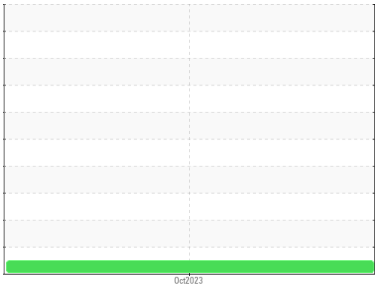
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
**2352**
Component
**Natural Gas Engine**
Fluid
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

**Recommendation**
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**
Metal levels are typical for a new component breaking in.

**Contamination**
There is no indication of any contamination in the oil.

**Fluid Condition**
The condition of the oil is acceptable for the time in service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0849897** | --- | --- |
| Sample Date | | Client Info | | **03 Oct 2023** | --- | --- |
| Machine Age | kms | Client Info | | **67495** | --- | --- |
| Oil Age | kms | Client Info | | **0** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | --- | --- |
| Sample Status | | | | **NORMAL** | --- | --- |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185(m) | >50 | **28** | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >4 | **0** | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >2 | **<1** | --- | --- |
| Titanium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Silver | ppm | ASTM D5185(m) | >3 | **<1** | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >9 | **3** | --- | --- |
| Lead | ppm | ASTM D5185(m) | >30 | **2** | --- | --- |
| Copper | ppm | ASTM D5185(m) | >35 | **17** | --- | --- |
| Tin | ppm | ASTM D5185(m) | >4 | **<1** | --- | --- |
| Antimony | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Beryllium | ppm | ASTM D5185(m) | | **0** | --- | --- |
| Cadmium | ppm | ASTM D5185(m) | | **0** | --- | --- |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185(m) | | **40** | --- | --- |
| Barium | ppm | ASTM D5185(m) | | **2** | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | **85** | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | **12** | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | | **566** | --- | --- |
| Calcium | ppm | ASTM D5185(m) | | **1100** | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | | **569** | --- | --- |
| Zinc | ppm | ASTM D5185(m) | | **618** | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | | **1944** | --- | --- |
| Lithium | ppm | ASTM D5185(m) | | **<1** | --- | --- |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185(m) | >+100 | **40** | --- | --- |
| Sodium | ppm | ASTM D5185(m) | | **3** | --- | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **1** | --- | --- |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Soot % | % | ASTM D7844* | | **0** | --- | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | **6.3** | --- | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | **19.9** | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | **13.5** | --- | --- |

| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Emulsified Water | scalar | Visual* | >0.1 | **NEG** | --- | --- |
| Free Water | scalar | Visual* | | **NEG** | --- | --- |

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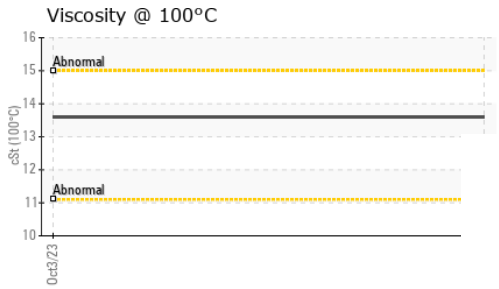
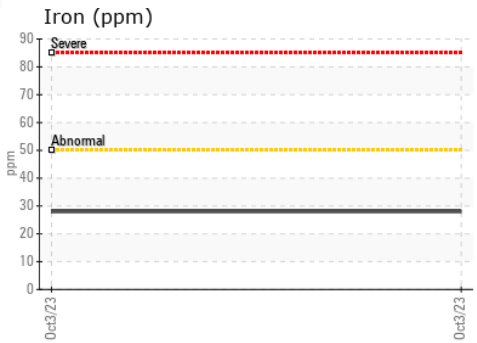
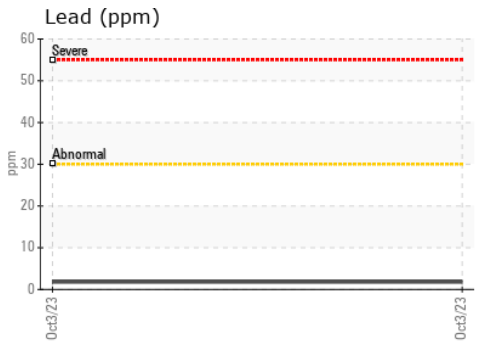
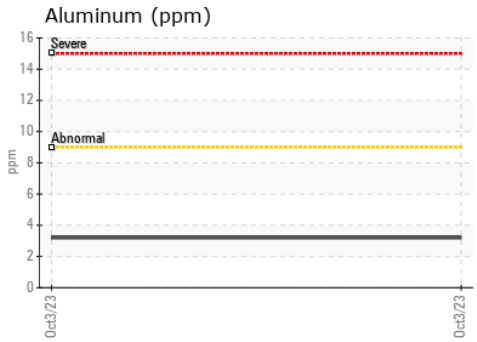


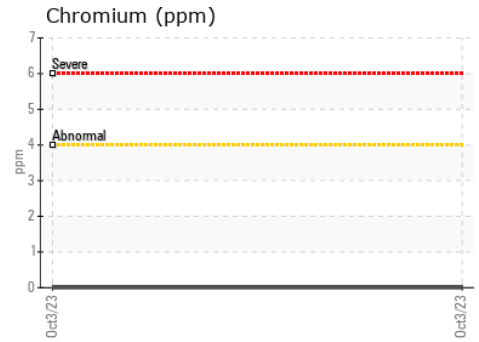

| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 100°C | cSt | ASTM D7279(m) | | **13.6** | --- | --- |

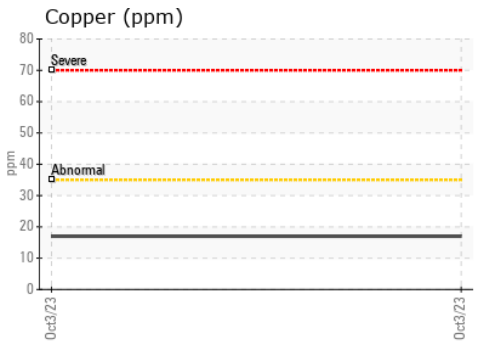
## GRAPHS

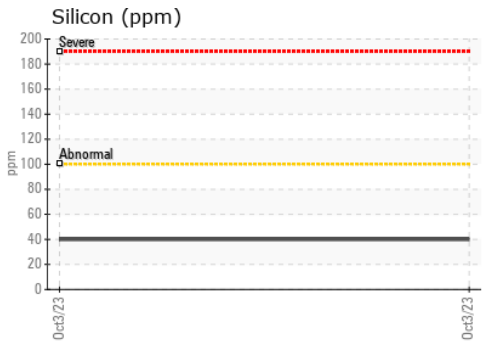


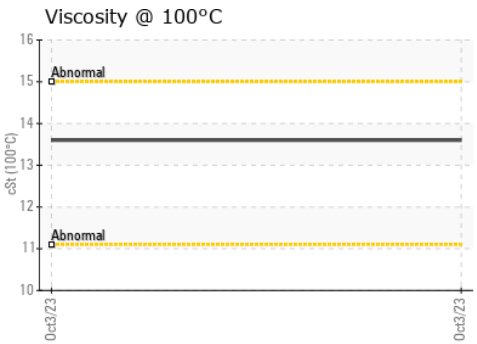



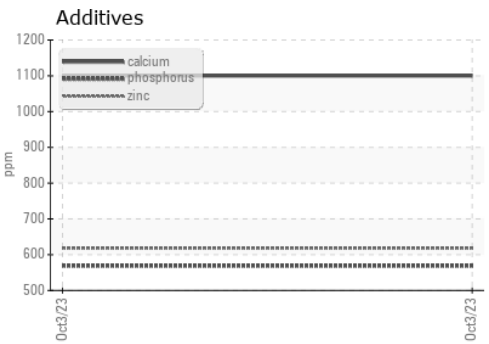




ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : WC0849897 **Received** : 11 Oct 2023
**Lab Number** : 02588259 **Diagnosed** : 11 Oct 2023
**Unique Number** : 5657325 **Diagnostician** : Wes Davis
**Test Package** : MOB 1

*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.*

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