MOB I

WAJAX POWER SYSTEMS SYSTÈMES DE PUISSANCE

# OIL ANALYSIS REPORT

| | |
|---|---|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area
## HALIFAX WATER [266788]
Machine Id
## IEZ07901
Component
## Diesel Engine
Fluid
## PETRO CANADA 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

Metal levels are typical for a new component breaking in.

## CONTAMINATION

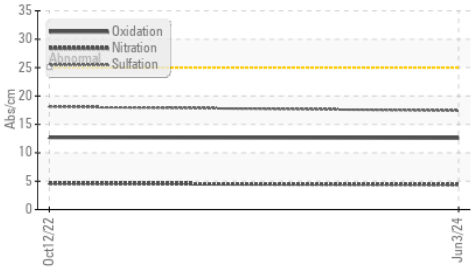
There is no indication of any contamination in the oil.

## FLUID CONDITION

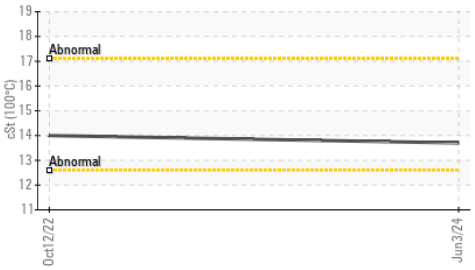
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WA0020852** | WA0018101 | --- |
| Sample Date | | Client Info | | **03 Jun 2024** | 12 Oct 2022 | --- |
| Machine Age | hrs | Client Info | | **184** | 159 | --- |
| Oil Age | hrs | Client Info | | **30** | 0 | --- |
| Filter Age | hrs | Client Info | | **30** | 0 | --- |
| Oil Changed | | Client Info | | **Changed** | Changed | --- |
| Filter Changed | | Client Info | | **Changed** | Changed | --- |
| Sample Status | | | | **NORMAL** | NORMAL | --- |
| Iron | ppm | ASTM D5185(m) | >100 | **1** | 1 | --- |
| Chromium | ppm | ASTM D5185(m) | >20 | **0** | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | >2 | **0** | 0 | --- |
| Titanium | ppm | ASTM D5185(m) | >2 | **0** | 0 | --- |
| Silver | ppm | ASTM D5185(m) | >2 | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | **<1** | <1 | --- |
| Lead | ppm | ASTM D5185(m) | >40 | **0** | 0 | --- |
| Copper | ppm | ASTM D5185(m) | >330 | **<1** | <1 | --- |
| Tin | ppm | ASTM D5185(m) | >15 | **0** | 0 | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | 0 | --- |
| Silicon | ppm | ASTM D5185(m) | >25 | **2** | 4 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **<1** | 0 | --- |
| Fuel | | WC Method | >5 | **<1.0** | <1.0 | --- |
| Water | | WC Method | >0.2 | **NEG** | NEG | --- |
| Glycol | | WC Method | | **NEG** | NEG | --- |
| Soot % | % | ASTM D7844* | >3 | **0** | 0 | --- |
| Nitration | Abs/cm | ASTM D7624* | >20 | **4.4** | 4.6 | --- |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | **17.4** | 18.1 | --- |
| Emulsified Water | scalar | Visual* | >0.2 | **NEG** | NEG | --- |
| Sodium | ppm | ASTM D5185(m) | | **1** | 2 | --- |
| Boron | ppm | ASTM D5185(m) | | **1** | 1 | --- |
| Barium | ppm | ASTM D5185(m) | | **0** | 0 | --- |
| Molybdenum | ppm | ASTM D5185(m) | | **55** | 53 | --- |
| Manganese | ppm | ASTM D5185(m) | | **0** | <1 | --- |
| Magnesium | ppm | ASTM D5185(m) | | **941** | 896 | --- |
| Calcium | ppm | ASTM D5185(m) | | **1003** | 954 | --- |
| Phosphorus | ppm | ASTM D5185(m) | | **956** | 1003 | --- |
| Zinc | ppm | ASTM D5185(m) | | **1109** | 1087 | --- |
| Sulfur | ppm | ASTM D5185(m) | | **2494** | 2493 | --- |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | **12.6** | 12.7 | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | | **13.7** | 14.0 | --- |

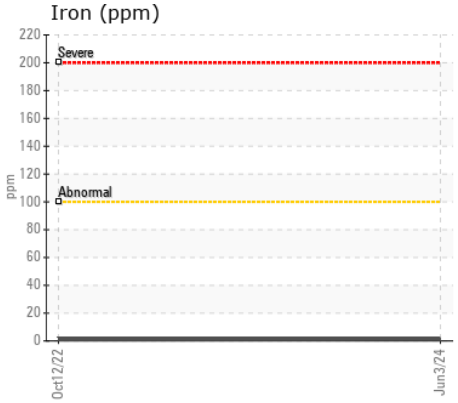
FT-IR (Direct Trend)



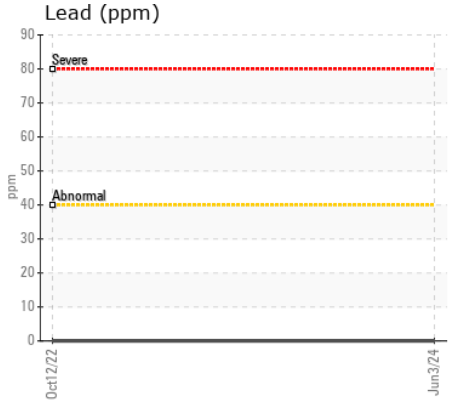

Viscosity @ 100°C



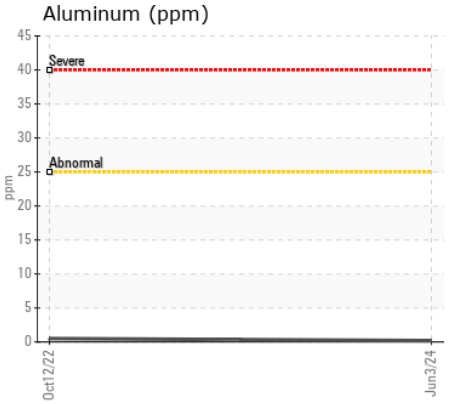

Iron (ppm)



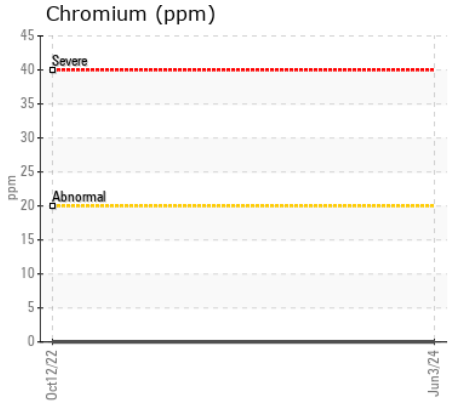

Lead (ppm)



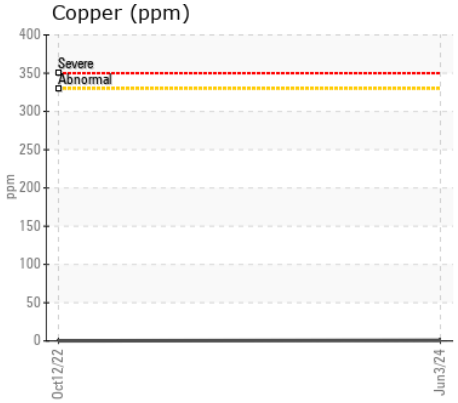

Aluminum (ppm)



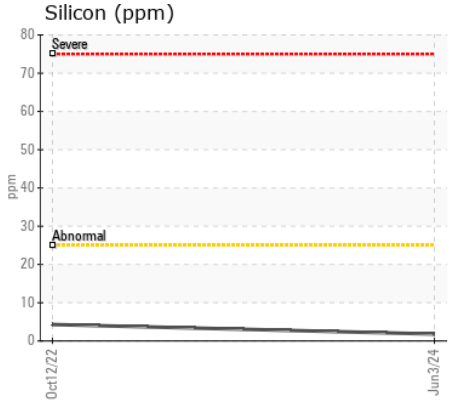

Chromium (ppm)



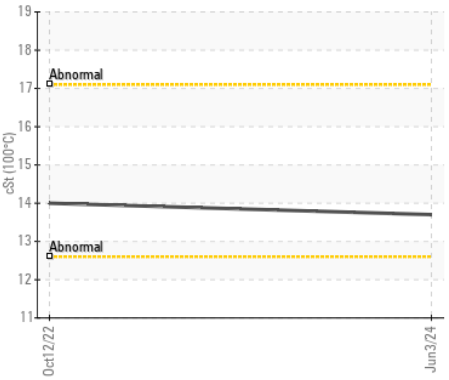

Copper (ppm)



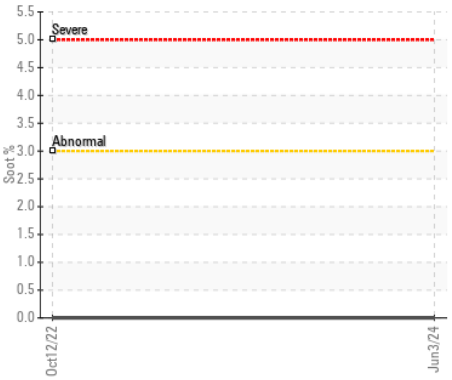

Silicon (ppm)




Viscosity @ 100°C




Soot %




ISO 17025:2017 Accredited Laboratory

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|---|---|---|---|
| **Laboratory** | : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 | | |
| **Sample No.** | : WA0020852 | **Received** | : 06 Jun 2024 |
| **Lab Number** | : 02640113 | **Tested** | : 06 Jun 2024 |
| **Unique Number** | : 5789275 | **Diagnosed** | : 06 Jun 2024 - 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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