MOB I LUBE 360 OIL DIAGNOSTICS

# OIL ANALYSIS REPORT

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

Machine Id
## CATERPILLAR 972H 2221104
Component
## Transmission (Manual)
Fluid
## PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

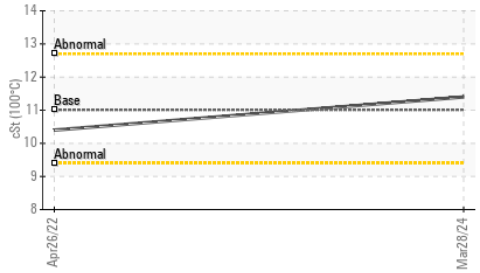
There is no indication of any contamination in the fluid.

## FLUID CONDITION

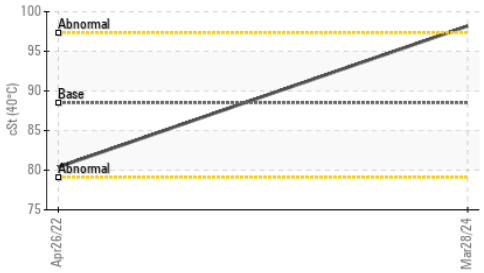
The condition of the fluid is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **PC0088935** | PC0059341 | --- |
| Sample Date | | Client Info | | **28 Mar 2024** | 26 Apr 2022 | --- |
| Machine Age | kms | Client Info | | **21060** | 18237 | --- |
| Oil Age | kms | Client Info | | **2000** | 0 | --- |
| Filter Age | kms | Client Info | | **2000** | 0 | --- |
| Oil Changed | | Client Info | | **Changed** | Changed | --- |
| Filter Changed | | Client Info | | **Changed** | N/A | --- |
| Sample Status | | | | **NORMAL** | NORMAL | --- |
| Iron | ppm | ASTM D5185(m) | >200 | **15** | 7 | --- |
| Chromium | ppm | ASTM D5185(m) | >5 | **0** | 0 | --- |
| Nickel | ppm | ASTM D5185(m) | >5 | **0** | <1 | --- |
| Titanium | ppm | ASTM D5185(m) | | **0** | 0 | --- |
| Silver | ppm | ASTM D5185(m) | >7 | **0** | <1 | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | **2** | <1 | --- |
| Lead | ppm | ASTM D5185(m) | >45 | **2** | 3 | --- |
| Copper | ppm | ASTM D5185(m) | >225 | **75** | 32 | --- |
| Tin | ppm | ASTM D5185(m) | >10 | **<1** | 1 | --- |
| Vanadium | ppm | ASTM D5185(m) | | **0** | 0 | --- |
| White Metal | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Silicon | ppm | ASTM D5185(m) | >125 | **7** | 3 | --- |
| Potassium | ppm | ASTM D5185(m) | >20 | **3** | 23 | --- |
| Water | | WC Method | >0.1 | **NEG** | NEG | --- |
| Silt | scalar | Visual* | NONE | **VLITE** | NONE | --- |
| Debris | scalar | Visual* | NONE | **VLITE** | NONE | --- |
| Sand/Dirt | scalar | Visual* | NONE | **NONE** | NONE | --- |
| Appearance | scalar | Visual* | NORML | **NORML** | NORML | --- |
| Odor | scalar | Visual* | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | Visual* | >0.1 | **NEG** | NEG | --- |
| Sodium | ppm | ASTM D5185(m) | | **2** | 8 | --- |
| Boron | ppm | ASTM D5185(m) | 2 | **<1** | 2 | --- |
| Barium | ppm | ASTM D5185(m) | 0 | **0** | 0 | --- |
| Molybdenum | ppm | ASTM D5185(m) | 0 | **0** | <1 | --- |
| Manganese | ppm | ASTM D5185(m) | 9 | **<1** | <1 | --- |
| Magnesium | ppm | ASTM D5185(m) | 1 | **16** | 21 | --- |
| Calcium | ppm | ASTM D5185(m) | 3131 | **4111** | 2443 | --- |
| Phosphorus | ppm | ASTM D5185(m) | 1194 | **870** | 1072 | --- |
| Zinc | ppm | ASTM D5185(m) | 1281 | **1022** | 1231 | --- |
| Sulfur | ppm | ASTM D5185(m) | 3811 | **3035** | 3655 | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 88.5 | **98.2** | 80.4 | --- |
| Visc @ 100°C | cSt | ASTM D7279(m) | 11.01 | **11.4** | 10.4 | --- |
| Viscosity Index (VI) | Scale | ASTM D2270* | 110 | **102** | 112 | --- |

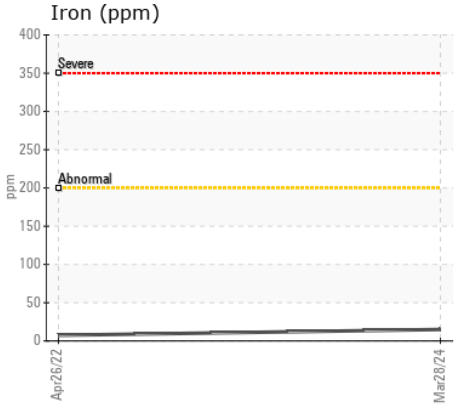
Viscosity @ 100°C



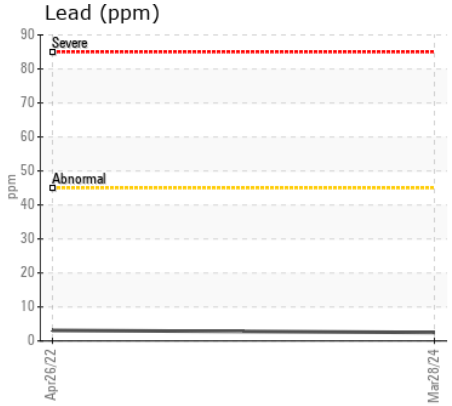

Viscosity @ 40°C



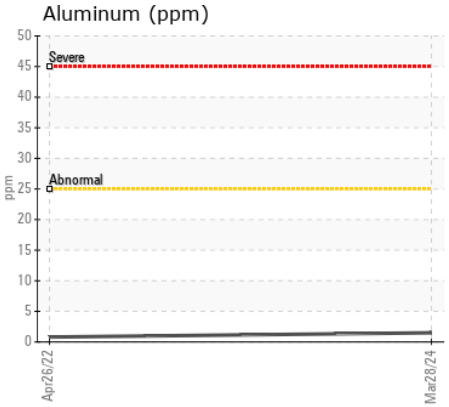

Iron (ppm)



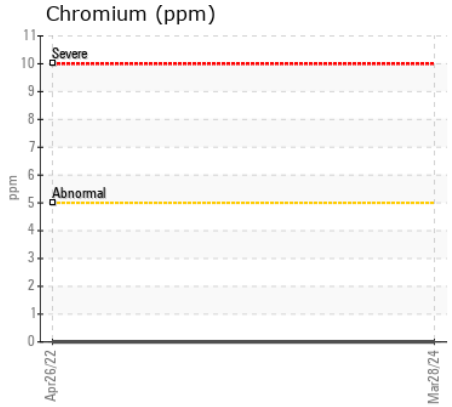

Lead (ppm)



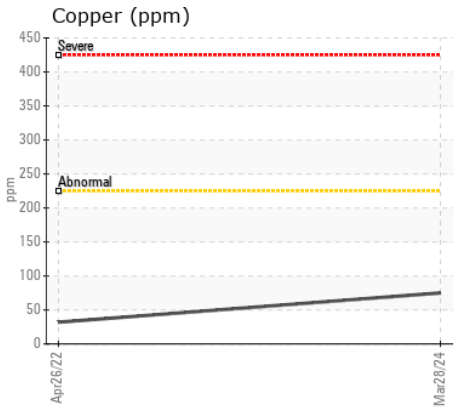

Aluminum (ppm)



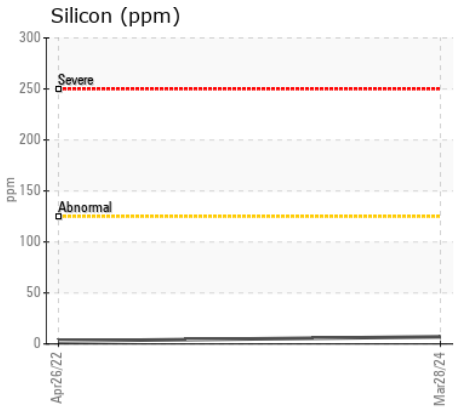

Chromium (ppm)



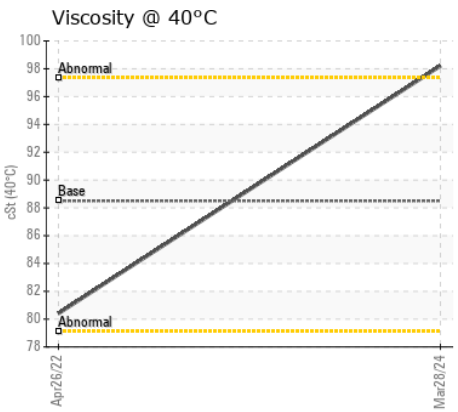

Copper (ppm)



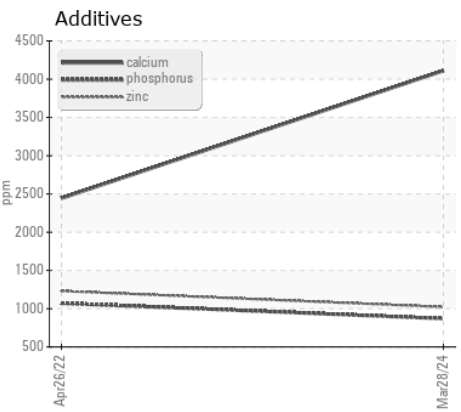

Silicon (ppm)




Viscosity @ 40°C




Additives




ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : PC0088935 **Received** : 19 Apr 2024
**Lab Number** : 02630294 **Tested** : 22 Apr 2024
**Unique Number** : 5763426 **Diagnosed** : 22 Apr 2024 - Wes Davis
**Test Package** : MOB 1 ( Additional Tests: KV100, VI )

*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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