MOB WEAR CHECK

# OIL ANALYSIS REPORT

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

Machine Id
**42**
Component
**Diesel Engine**
Fluid
**PETRO CANADA DURON HP 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

## WEAR

Metal levels are typical for a new component breaking in.

## CONTAMINATION

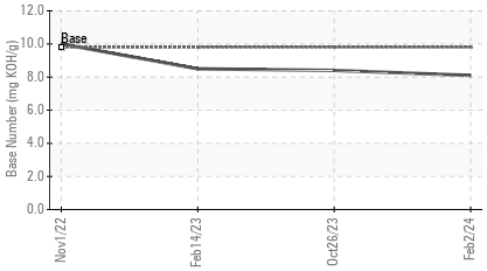
There is no indication of any contamination in the oil.

## FLUID CONDITION

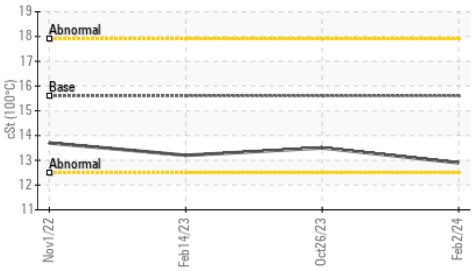
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0867925** | WC0740588 | WC0740629 |
| Sample Date | | Client Info | | **02 Feb 2024** | 26 Oct 2023 | 14 Feb 2023 |
| Machine Age | mls | Client Info | | **10040** | 94911 | 84744 |
| Oil Age | mls | Client Info | | **0** | 0 | 0 |
| Filter Age | mls | Client Info | | **0** | 0 | 0 |
| Oil Changed | | Client Info | | **Not Changd** | Not Changd | Not Changd |
| Filter Changed | | Client Info | | **Not Changd** | Not Changd | Not Changd |
| Sample Status | | | | **NORMAL** | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | **19** | 12 | 25 |
| Chromium | ppm | ASTM D5185m | >20 | **<1** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | **0** | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | **0** | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | **8** | 4 | 10 |
| Lead | ppm | ASTM D5185m | >40 | **0** | 0 | <1 |
| Copper | ppm | ASTM D5185m | >330 | **1** | <1 | 1 |
| Tin | ppm | ASTM D5185m | >15 | **0** | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | **5** | 4 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | **6** | 5 | 4 |
| Fuel | | WC Method | >5 | **<1.0** | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | **NEG** | NEG | NEG |
| Glycol | | WC Method | | **NEG** | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | **1.2** | 0.6 | 1.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | **9.9** | 7.5 | 9.5 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | **20.9** | 19.5 | 20.8 |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Debris | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.2 | **NEG** | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | **2** | 0 | 2 |
| Boron | ppm | ASTM D5185m | | **5** | 8 | 4 |
| Barium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | **59** | 64 | 61 |
| Manganese | ppm | ASTM D5185m | | **<1** | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | **847** | 796 | 899 |
| Calcium | ppm | ASTM D5185m | | **1257** | 1183 | 1102 |
| Phosphorus | ppm | ASTM D5185m | | **991** | 903 | 993 |
| Zinc | ppm | ASTM D5185m | | **1233** | 1213 | 1210 |
| Sulfur | ppm | ASTM D5185m | | **3137** | 3147 | 3482 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | **17.3** | 15.1 | 16.2 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.8 | **8.1** | 8.4 | 8.5 |
| Visc @ 100°C | cSt | ASTM D445 | 15.6 | **12.9** | 13.5 | 13.2 |

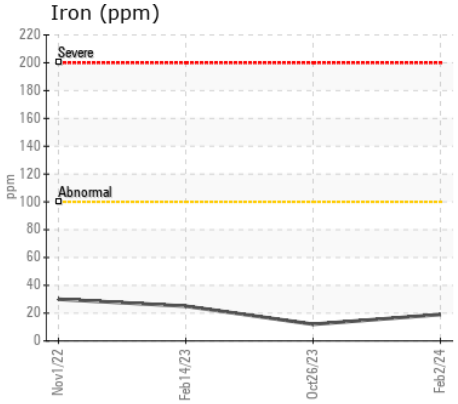
Base Number



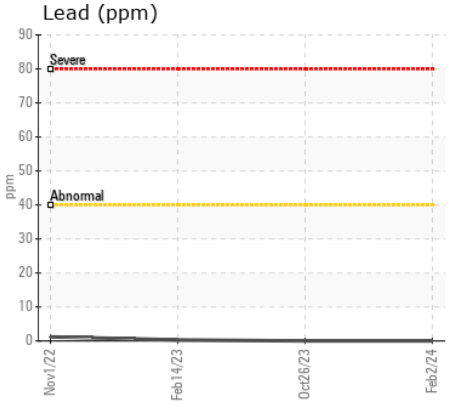

Viscosity @ 100°C



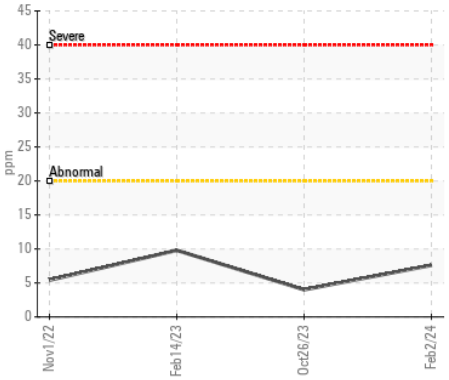

Iron (ppm)



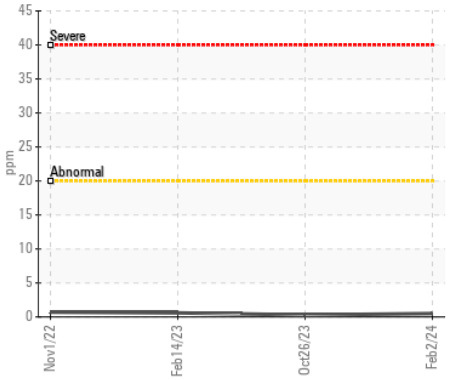

Lead (ppm)



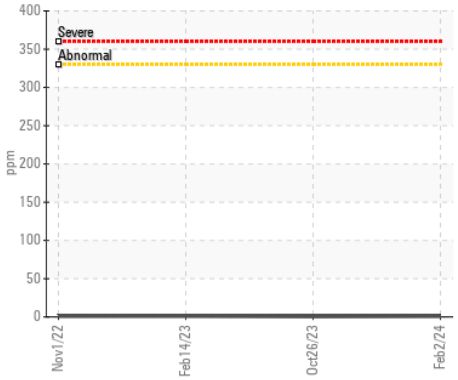

Aluminum (ppm)



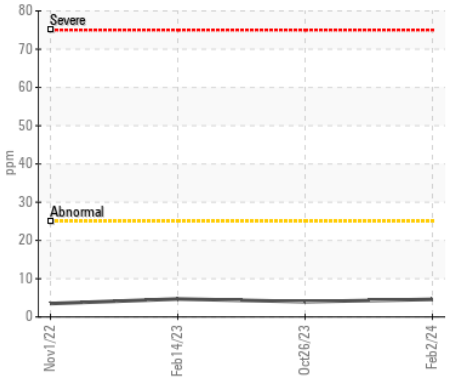

Chromium (ppm)



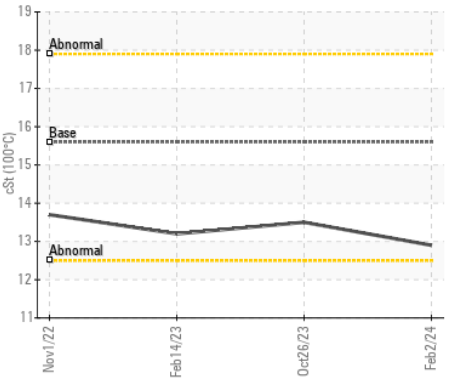

Copper (ppm)



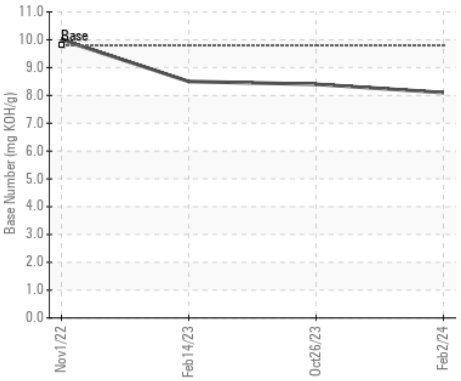

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0867925
**Lab Number** : 06098955
**Unique Number** : 10897185
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 23 Feb 2024
**Tested** : 26 Feb 2024
**Diagnosed** : 26 Feb 2024 - Wes Davis

*To discuss this sample report, contact Customer Service at 1-800-237-1369.*
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
*Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)*

**ANSON CO SCHOOL BUS GARAGE**
89 BOGGAN CUT RD
WADESBORO, NC
US 28135
Contact: MATT POWELL
powell.berkeley@anson.k12.nc.us
T:
F: