MOB I WEAR CHECK

# OIL ANALYSIS REPORT

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

Machine Id
## KENWORTH 3007
Component
## Diesel Engine
Fluid
## CHEVRON DELO 400 XLE 10W30 (40 QTS)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

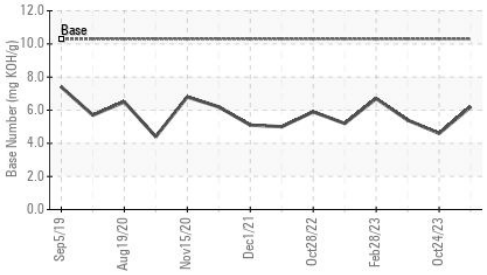
There is no indication of any contamination in the oil.

## FLUID CONDITION

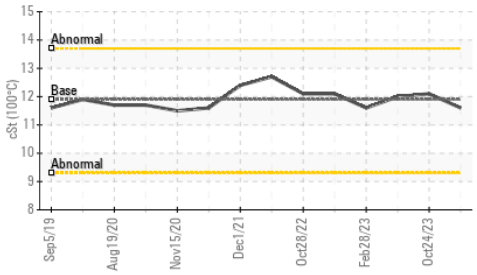
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | WC0663219 | WC0663186 | WC0816613 |
| Sample Date | | Client Info | | 31 Jan 2024 | 24 Oct 2023 | 06 Sep 2023 |
| Machine Age | mls | Client Info | | 399128 | 380603 | 374547 |
| Oil Age | mls | Client Info | | 18526 | 46349 | 40293 |
| Filter Age | mls | Client Info | | 18526 | 46349 | 40293 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Filter Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | 8 | 17 | 15 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | 1 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 5 | 5 |
| Lead | ppm | ASTM D5185m | >40 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 3 | 5 | 6 |
| Tin | ppm | ASTM D5185m | >15 | 1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | 6 | 8 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 4 | 6 |
| 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 | 0.3 | 0.6 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.7 | 10.5 | 10.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.1 | 25.5 | 24.0 |
| 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 | 3 | 4 |
| Boron | ppm | ASTM D5185m | | 35 | 23 | 28 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 2 | 1 | 3 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 784 | 806 | 824 |
| Calcium | ppm | ASTM D5185m | 2900 | 1385 | 1414 | 1566 |
| Phosphorus | ppm | ASTM D5185m | 1100 | 765 | 766 | 758 |
| Zinc | ppm | ASTM D5185m | 1200 | 874 | 891 | 911 |
| Sulfur | ppm | ASTM D5185m | 4000 | 3117 | 2983 | 3712 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.2 | 21.6 | 19.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.3 | 6.2 | 4.6 | 5.4 |
| Visc @ 100°C | cSt | ASTM D445 | 11.9 | 11.6 | 12.1 | 12.0 |

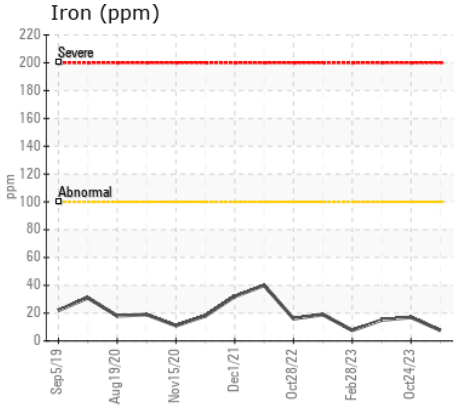
Base Number



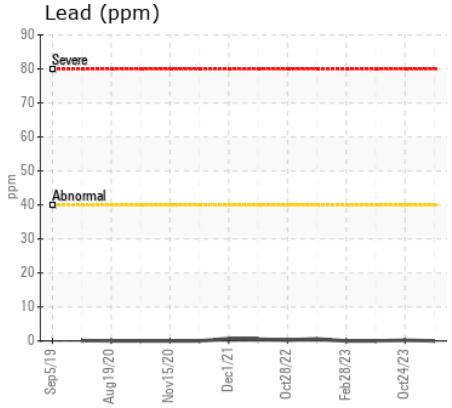

Viscosity @ 100°C



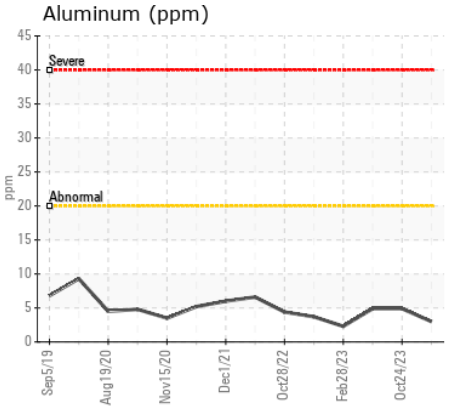

Iron (ppm)



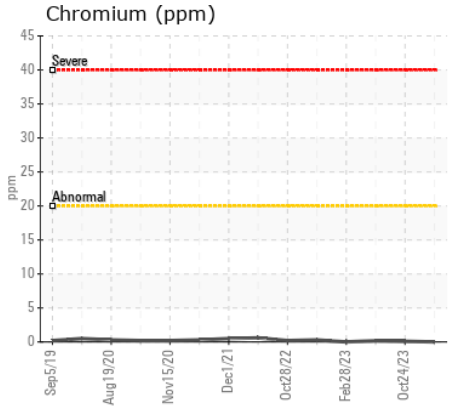

Lead (ppm)



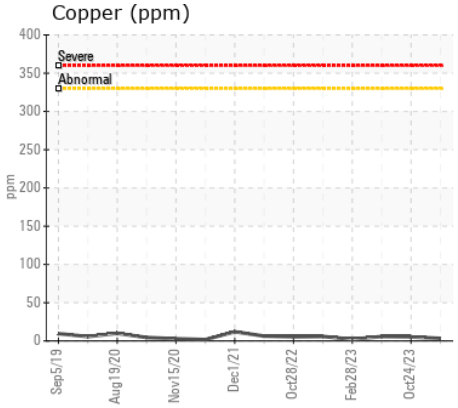

Aluminum (ppm)



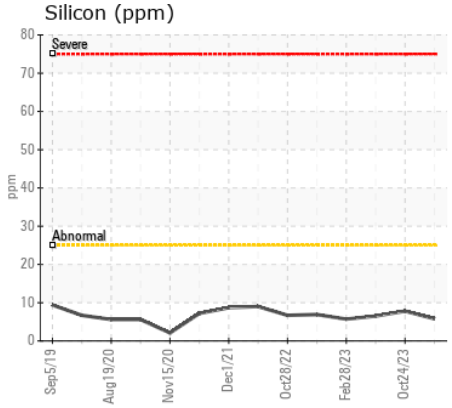

Chromium (ppm)



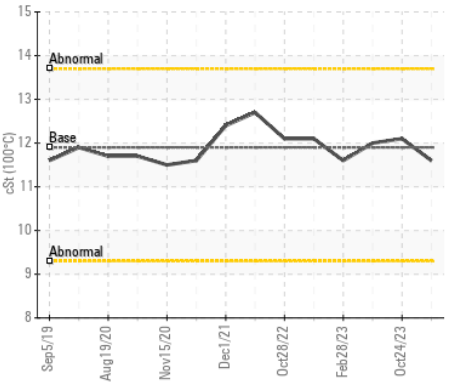

Copper (ppm)



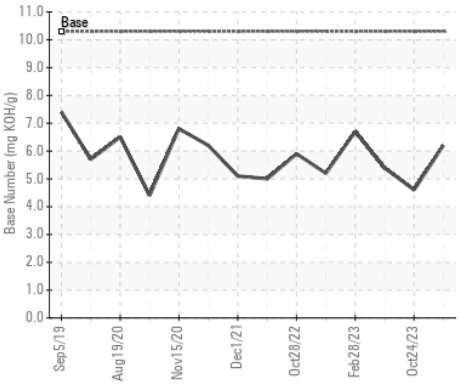

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0663219
**Lab Number** : 06084203
**Unique Number** : 10871648
**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 08 Feb 2024
**Tested** : 09 Feb 2024
**Diagnosed** : 09 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)*

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