MOB II LUBE PLUS+

OIL ANALYSIS REPORT

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

Area
**MIXERS**
Machine Id
**[MIXERS] M291**
Component
**Diesel Engine**
Fluid
**KENDALL 15W40 (--- 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 oil.

## FLUID CONDITION

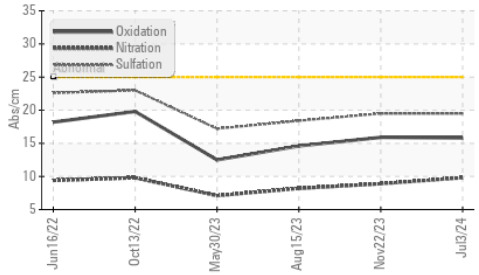
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | LP0001277 | LP0001119 | LP0000432 |
| Sample Date | | Client Info | | 03 Jul 2024 | 22 Nov 2023 | 15 Aug 2023 |
| Machine Age | hrs | Client Info | | 10356 | 9585 | 9048 |
| Oil Age | hrs | Client Info | | 600 | 600 | 600 |
| Filter Age | hrs | Client Info | | 600 | 600 | 600 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185m | >100 | 18 | 17 | 17 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 1 | 2 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 2 | 3 |
| Lead | ppm | ASTM D5185m | >40 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 3 | 3 | 2 |
| Tin | ppm | ASTM D5185m | >15 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >25 | 7 | 12 | 22 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 3 | 5 |
| 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 | 0.2 | 0.2 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.8 | 8.9 | 8.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.5 | 19.5 | 18.4 |
| 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 | | 3 | 4 | 9 |
| Boron | ppm | ASTM D5185m | 6.3 | 43 | 42 | 72 |
| Barium | ppm | ASTM D5185m | 0.6 | 0 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | 0.4 | 86 | 82 | 122 |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 277 | 108 | 149 | 285 |
| Calcium | ppm | ASTM D5185m | 1514 | 2148 | 1975 | 2910 |
| Phosphorus | ppm | ASTM D5185m | 634 | 1035 | 871 | 1412 |
| Zinc | ppm | ASTM D5185m | 743 | 1229 | 1161 | 1705 |
| Sulfur | ppm | ASTM D5185m | 2592 | 3541 | 4073 | 5527 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 15.8 | 15.9 | 14.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 8.11 | 9.91 | 11.03 |
| Visc @ 100°C | cSt | ASTM D445 | | 12.7 | 12.8 | 12.9 |

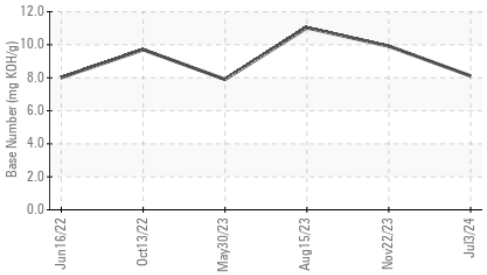
Report Id: CONWILMA [WUSCAR] 06237067 (Generated: 07/17/2024 07:28:46) Rev: 1

Submitted By: Michael Dupuis

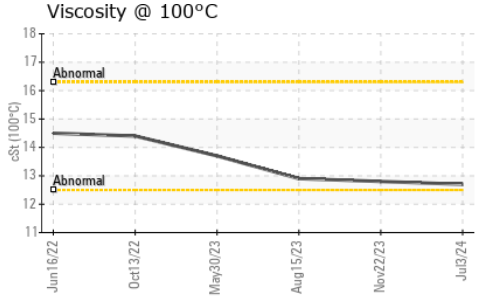
FT-IR (Direct Trend)



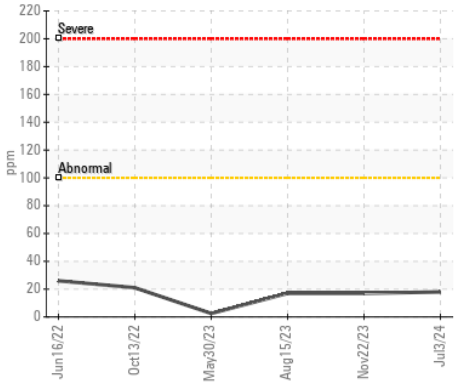

Base Number



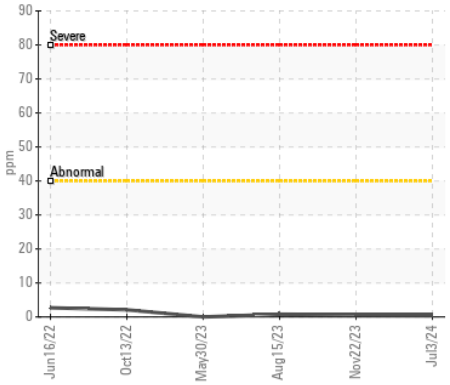

Viscosity @ 100°C



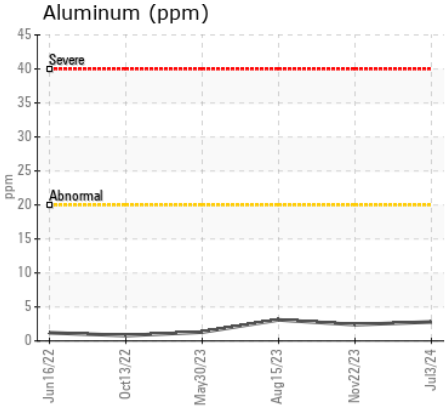

Iron (ppm)



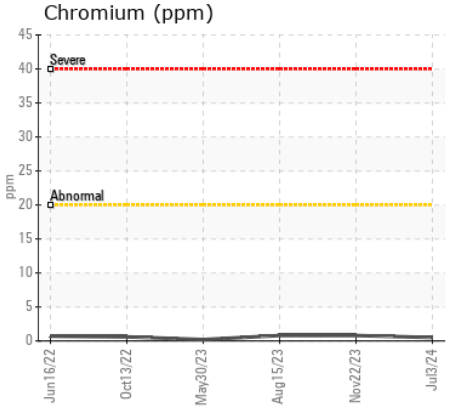

Lead (ppm)



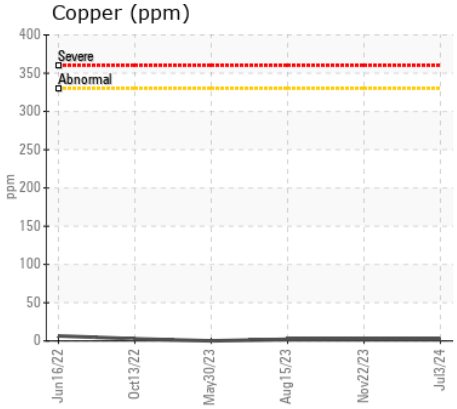

Aluminum (ppm)



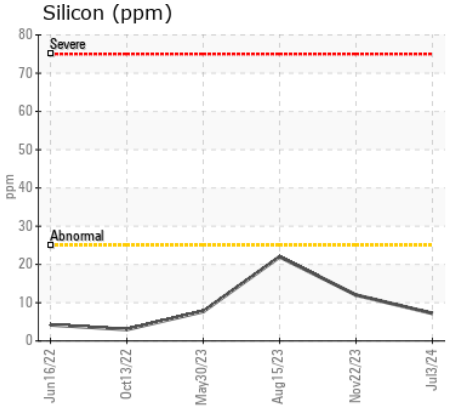

Chromium (ppm)



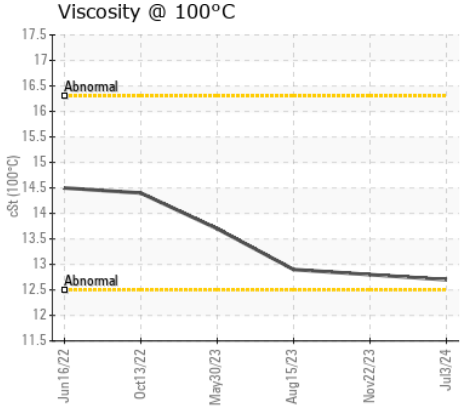

Copper (ppm)



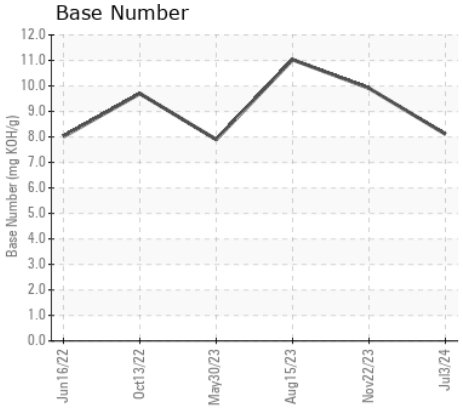

Silicon (ppm)




Viscosity @ 100°C




Base Number




ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : LP0001277
**Lab Number** : 06237067
**Unique Number** : 11125901
**Test Package** : MOB 2

**Received** : 15 Jul 2024
**Tested** : 17 Jul 2024
**Diagnosed** : 17 Jul 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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