# OIL ANALYSIS REPORT

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

Machine Id
## OSHKOSH MIXER 4400
Component
## Diesel Engine
Fluid
## MOBIL 15W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

Metal levels are typical for a new component breaking in.

## CONTAMINATION

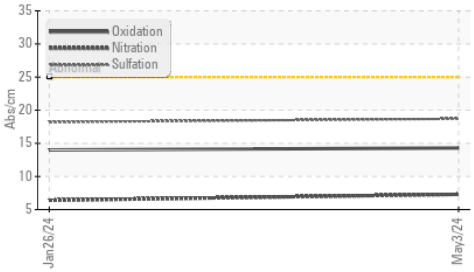
There is no indication of any contamination in the oil.

## FLUID CONDITION

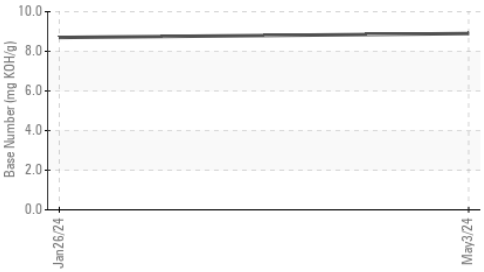
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0917239** | WC0893874 | --- |
| Sample Date | | Client Info | | **03 May 2024** | 26 Jan 2024 | --- |
| Machine Age | mls | Client Info | | **49101** | 43864 | --- |
| Oil Age | mls | Client Info | | **0** | 0 | --- |
| Filter Age | mls | Client Info | | **0** | 0 | --- |
| Oil Changed | | Client Info | | **Changed** | Changed | --- |
| Filter Changed | | Client Info | | **Changed** | Changed | --- |
| Sample Status | | | | **NORMAL** | NORMAL | --- |
| Iron | ppm | ASTM D5185m | >100 | **5** | 1 | --- |
| Chromium | ppm | ASTM D5185m | >20 | **<1** | <1 | --- |
| Nickel | ppm | ASTM D5185m | >4 | **0** | 0 | --- |
| Titanium | ppm | ASTM D5185m | | **<1** | 0 | --- |
| Silver | ppm | ASTM D5185m | >3 | **0** | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >20 | **2** | <1 | --- |
| Lead | ppm | ASTM D5185m | >40 | **0** | 0 | --- |
| Copper | ppm | ASTM D5185m | >330 | **<1** | 0 | --- |
| Tin | ppm | ASTM D5185m | >15 | **0** | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | --- |
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Silicon | ppm | ASTM D5185m | >25 | **3** | 3 | --- |
| Potassium | ppm | ASTM D5185m | >20 | **2** | 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 | **0.4** | 0.3 | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | **7.3** | 6.4 | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | **18.7** | 18.2 | --- |
| Silt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Debris | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | NONE | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Odor | scalar | *Visual | NORML | **NORML** | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | **NEG** | NEG | --- |
| Sodium | ppm | ASTM D5185m | >118 | **<1** | <1 | --- |
| Boron | ppm | ASTM D5185m | | **4** | 3 | --- |
| Barium | ppm | ASTM D5185m | | **0** | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | **58** | 58 | --- |
| Manganese | ppm | ASTM D5185m | | **0** | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | **935** | 931 | --- |
| Calcium | ppm | ASTM D5185m | | **1043** | 1042 | --- |
| Phosphorus | ppm | ASTM D5185m | | **1050** | 1062 | --- |
| Zinc | ppm | ASTM D5185m | | **1220** | 1226 | --- |
| Sulfur | ppm | ASTM D5185m | | **2924** | 2989 | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | **14.3** | 14.0 | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | **8.9** | 8.7 | --- |
| Visc @ 100°C | cSt | ASTM D445 | | **14.4** | 14.2 | --- |

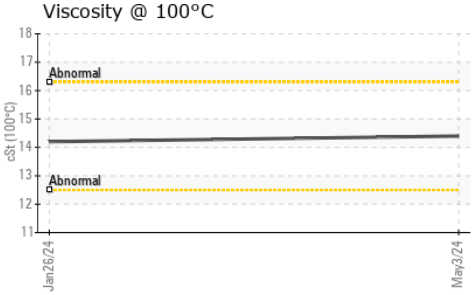
FT-IR (Direct Trend)



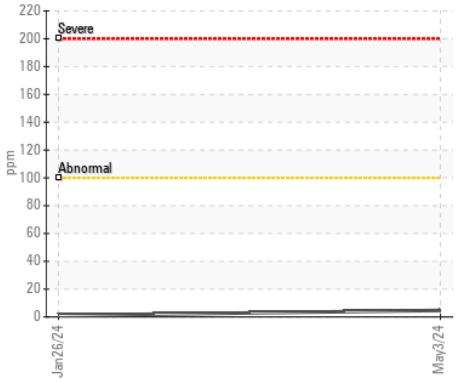

Base Number



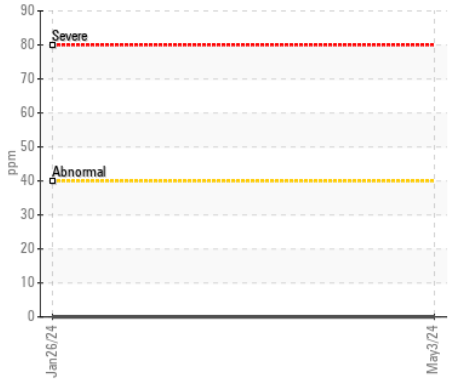

Viscosity @ 100°C



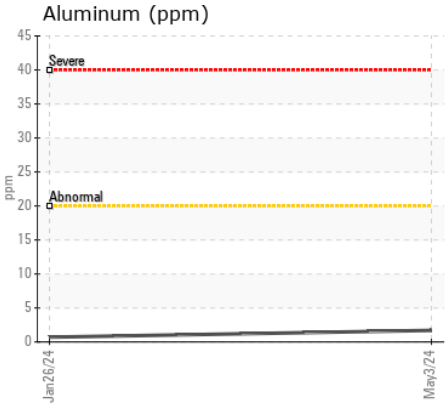

Iron (ppm)



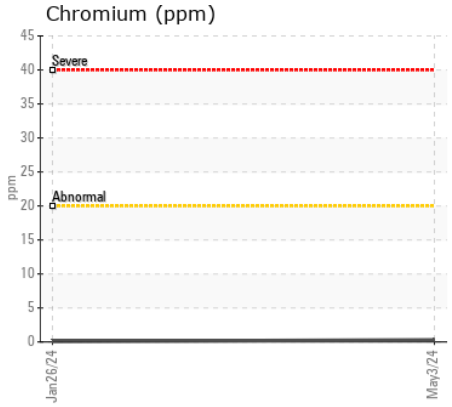

Lead (ppm)



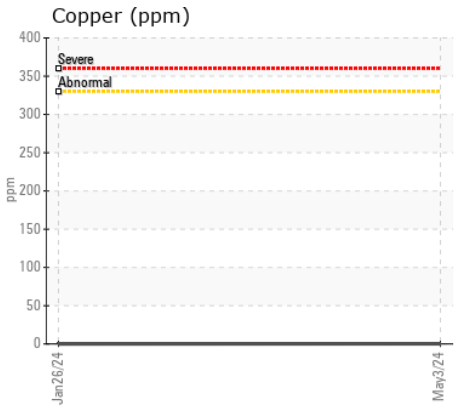

Aluminum (ppm)



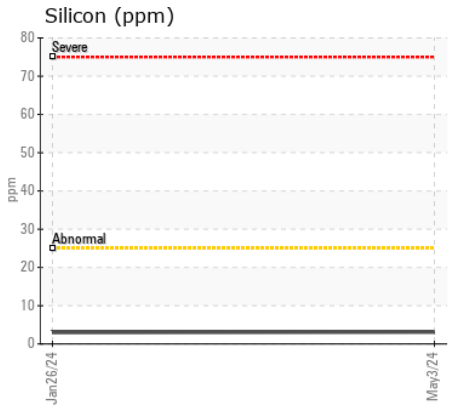

Chromium (ppm)



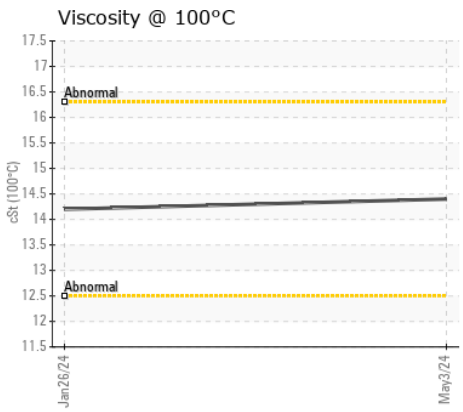

Copper (ppm)



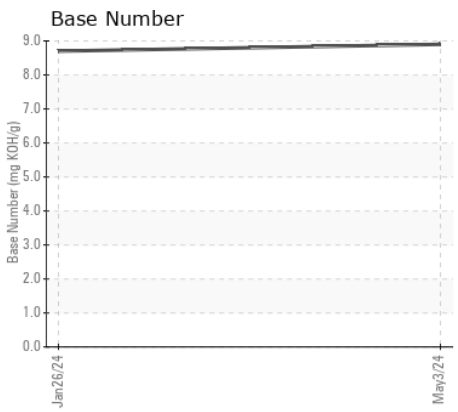

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0917239 **Received** : 19 Jun 2024
**Lab Number** : 06214212 **Tested** : 20 Jun 2024
**Unique Number** : 11087076 **Diagnosed** : 20 Jun 2024 - Wes Davis
**Test Package** : MOB 1 ( Additional Tests: TBN )

*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)*

**CONCRETE SERVICE CO - FAY BLOCK**
161 BUILDERS BLVD
FAYETTEVILLE, NC
US 28301
Contact: BRYAN VANNIMAN
bryanvanniman@fayblock.com
T: (800)326-9198
F: