MOB II WEAR CHECK

# OIL ANALYSIS REPORT

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

Machine Id
## 16192 (S/N P370408B)
Component
## Diesel Engine
Fluid
## DIESEL ENGINE OIL SAE 5W40 (--- GAL)

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

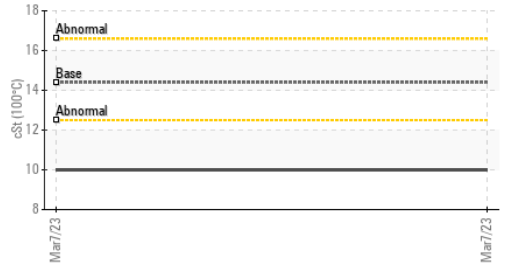
Fuel content negligible. There is no indication of any contamination in the oil.

## FLUID CONDITION

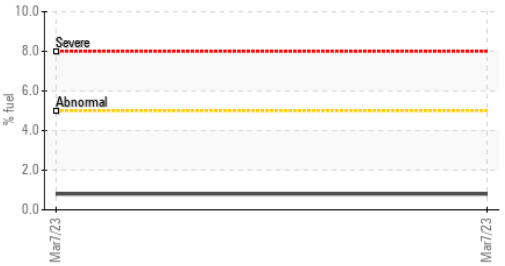
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | WC0772547 | --- | --- |
| Sample Date | | Client Info | | 07 Mar 2023 | --- | --- |
| Machine Age | hrs | Client Info | | 852 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ATTENTION | --- | --- |
| Iron | ppm | ASTM D5185m | >100 | 5 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | <1 | --- | --- |
| Nickel | ppm | ASTM D5185m | >4 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >3 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >20 | 1 | --- | --- |
| Lead | ppm | ASTM D5185m | >40 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >330 | 0 | --- | --- |
| Tin | ppm | ASTM D5185m | >15 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >25 | 6 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Fuel | % | ASTM D3524 | >5 | 0.8 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.4 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 22.0 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- | --- |
| Sodium | ppm | ASTM D5185m | >44 | 2 | --- | --- |
| Boron | ppm | ASTM D5185m | 250 | 57 | --- | --- |
| Barium | ppm | ASTM D5185m | 10 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 100 | 43 | --- | --- |
| Manganese | ppm | ASTM D5185m | | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 450 | 520 | --- | --- |
| Calcium | ppm | ASTM D5185m | 3000 | 1727 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1027 | --- | --- |
| Zinc | ppm | ASTM D5185m | 1350 | 1295 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 4250 | 3466 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 21.3 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 11.02 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 91 | 63.1 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | ▲ 10.0 | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | 164 | 143 | --- | --- |

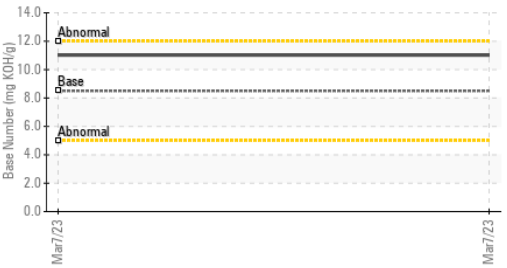
Viscosity @ 100°C



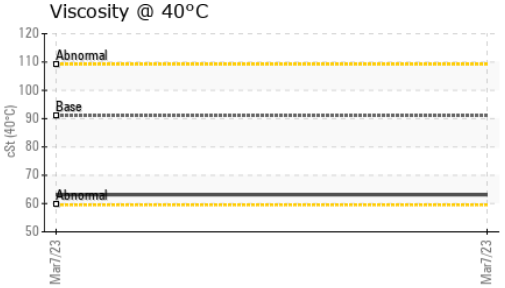

Fuel Dilution



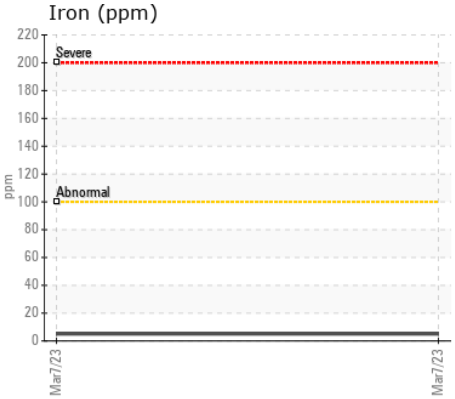

Base Number



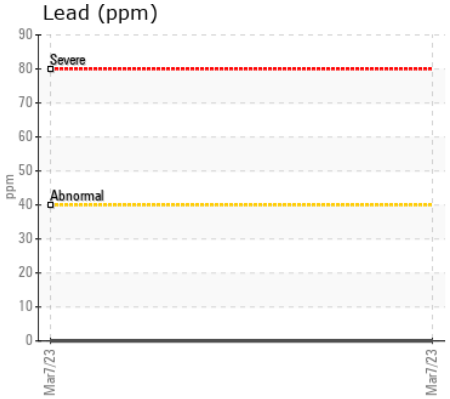

Viscosity @ 40°C



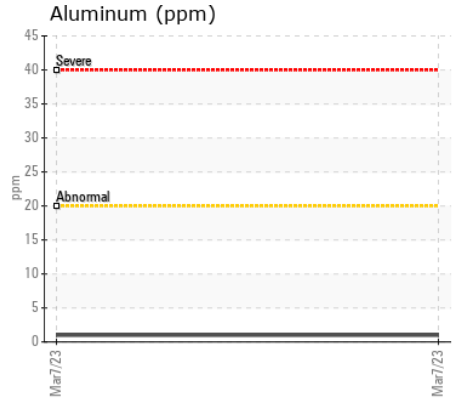

Iron (ppm)



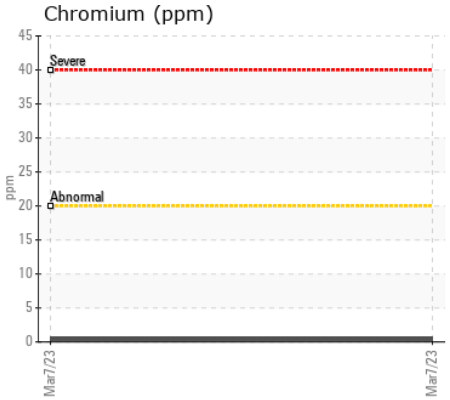

Lead (ppm)



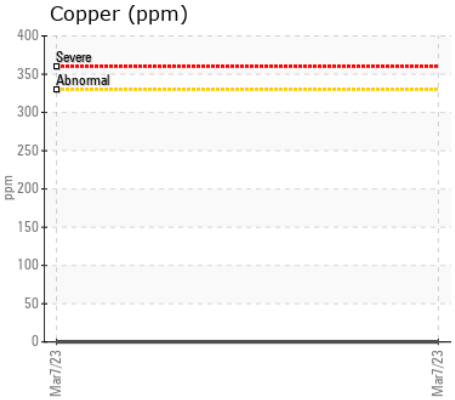

Aluminum (ppm)



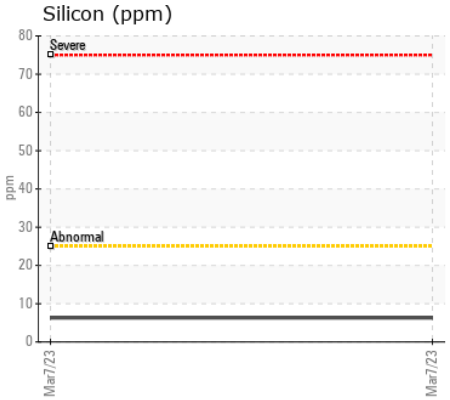

Chromium (ppm)



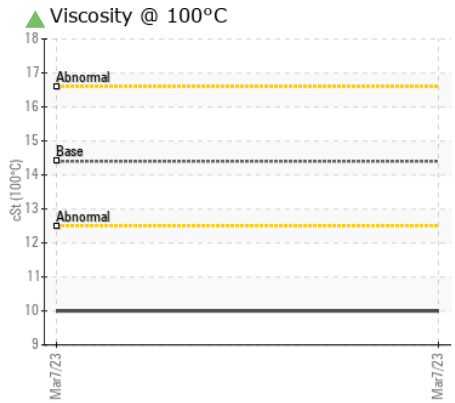

Copper (ppm)



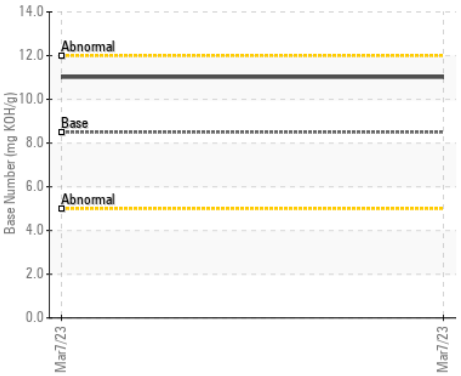

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0772547 **Recieved** : 20 Mar 2023
**Lab Number** : 05796720 **Diagnosed** : 23 Mar 2023
**Unique Number** : 10386404 **Diagnostician** : Doug Bogart
**Test Package** : MOB 2 ( Additional Tests: FuelDilution, KV40, PercentFuel, VI )

*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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