



OIL ANALYSIS REPORT

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

Machine Id
G1 - 3315134
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (34 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | WCM2279369 | WCM2279371 | WCM2279452 |
| Sample Date | | Client Info | | 17 Feb 2024 | 13 Jan 2024 | 10 Oct 2020 |
| Machine Age | hrs | Client Info | | 383 | 585 | 300 |
| Oil Age | hrs | Client Info | | 383 | 585 | 300 |
| Filter Age | hrs | Client Info | | 383 | 585 | 300 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | --- | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|------|------|------|
| Iron | ppm | ASTM D5185m | >90 | 6 | 4 | 7 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 1 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >40 | 4 | 2 | 4 |
| 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 |

CONTAMINATION

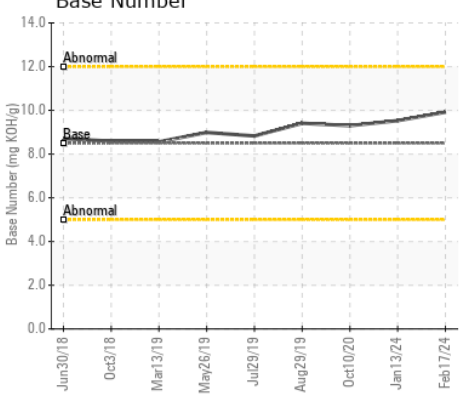
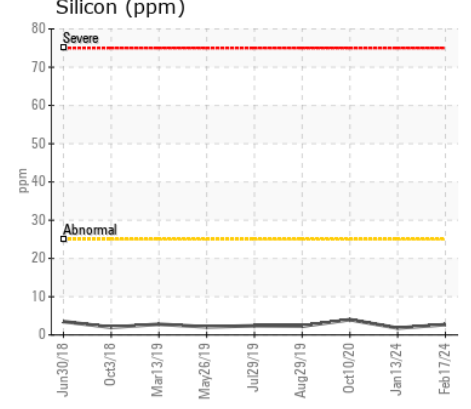
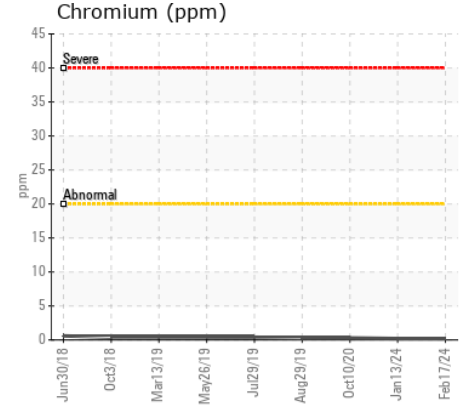
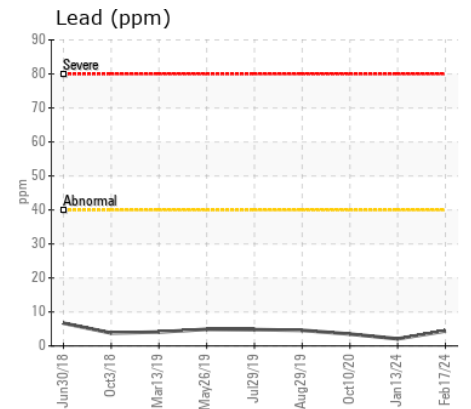
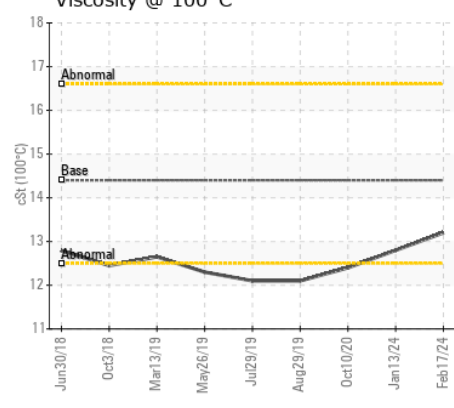
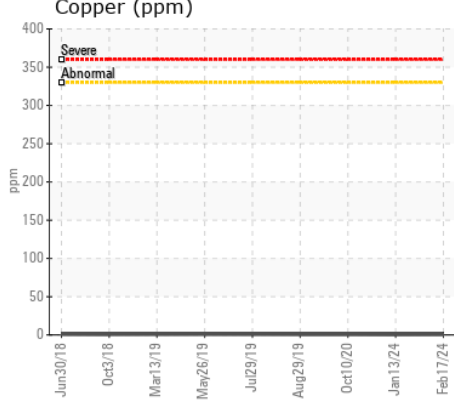
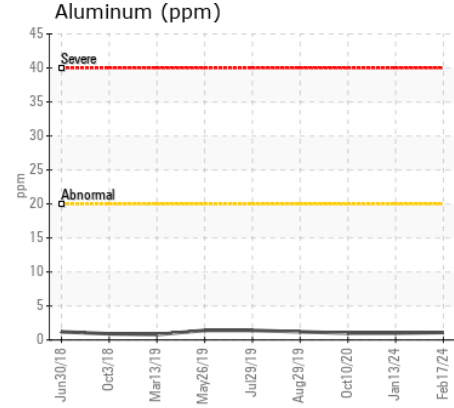
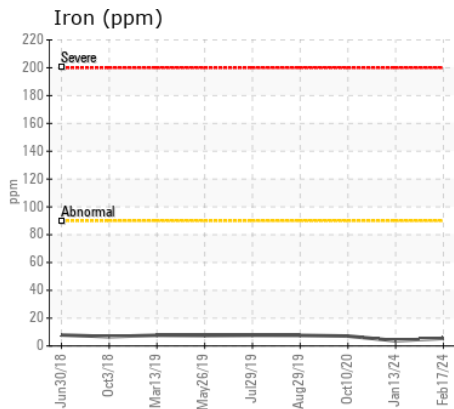
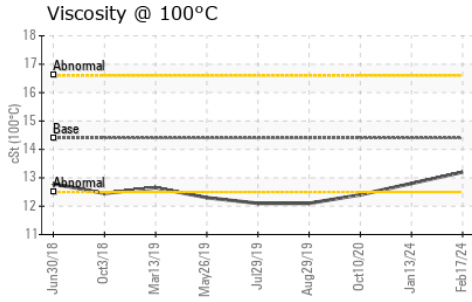
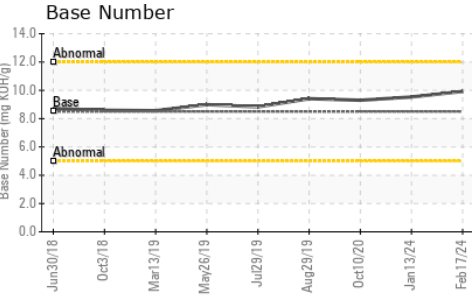
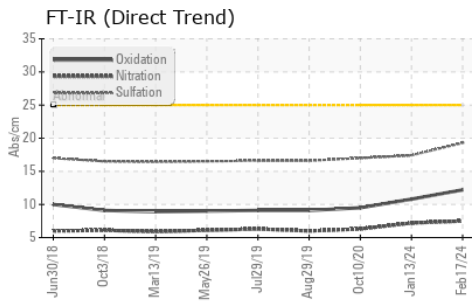
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 3 | 2 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >6 | 0.1 | 0.1 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.5 | 7.2 | 6.3 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.3 | 17.4 | 17 |
| 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 |

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.

| | | | | | | |
|------------------|----------|-------------|------|------|------|------|
| Sodium | ppm | ASTM D5185m | >158 | 2 | 2 | <1 |
| Boron | ppm | ASTM D5185m | 250 | 216 | 99 | 3 |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 100 | 41 | 38 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 450 | 28 | 15 | 11 |
| Calcium | ppm | ASTM D5185m | 3000 | 3620 | 3505 | 3535 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 918 | 884 | 948 |
| Zinc | ppm | ASTM D5185m | 1350 | 1032 | 992 | 1068 |
| Sulfur | ppm | ASTM D5185m | 4250 | 3769 | 3606 | 3559 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 12.2 | 10.8 | 9.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 9.92 | 9.53 | 9.30 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.2 | 12.8 | 12.4 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WCM2279369
Lab Number : 06161709
Unique Number : 10997132
Test Package : MOB 2

Received : 26 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 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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