



OIL ANALYSIS REPORT

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

Machine Id
INTERNATIONAL 61050
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (22 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0829830 | WCM1299835 | WCM1273293 |
| Sample Date | | Client Info | | 18 Jan 2024 | 17 May 2021 | 07 Mar 2021 |
| Machine Age | mls | Client Info | | 150512 | 0 | 0 |
| Oil Age | mls | Client Info | | 0 | 0 | 0 |
| Filter Age | mls | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | N/A | Changed |
| Filter Changed | | Client Info | | Changed | N/A | Changed |
| Sample Status | | | | NORMAL | ATTENTION | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >90 | 59 | 33 | 60 |
| Chromium | ppm | ASTM D5185m | >20 | 1 | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 11 | ▲ 24 | ▲ 45 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 3 | 15 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | <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

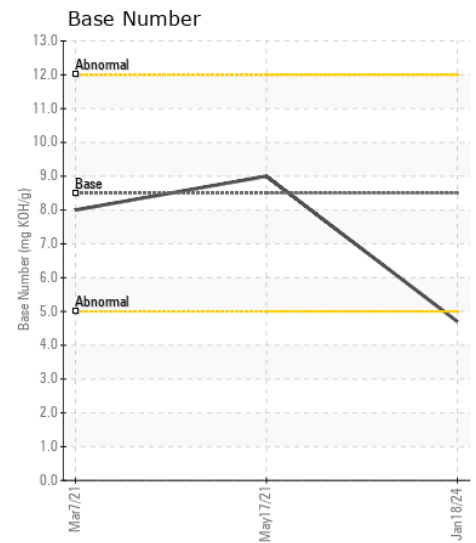
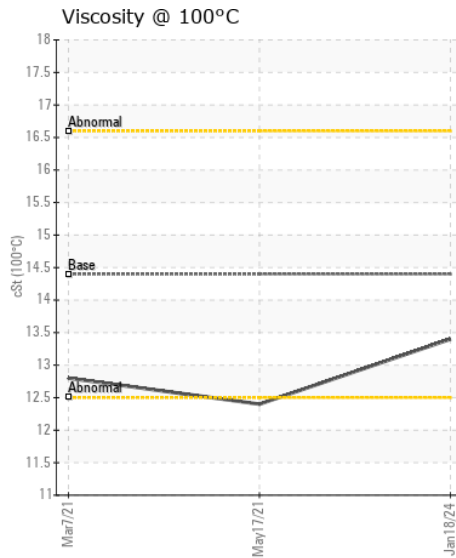
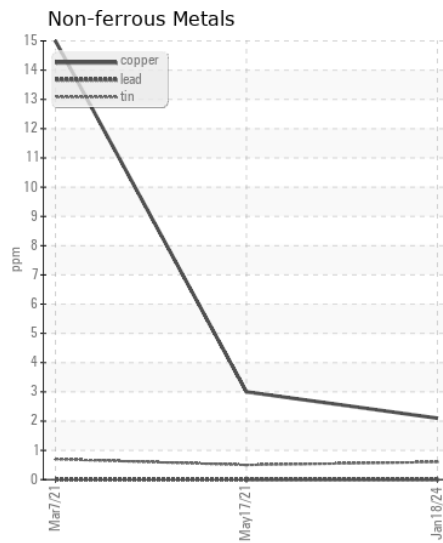
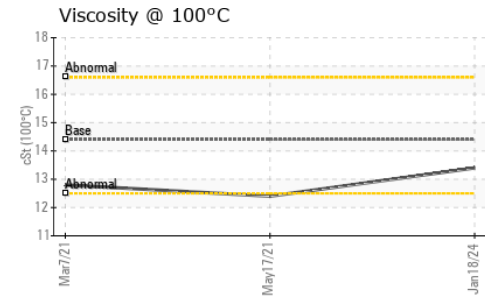
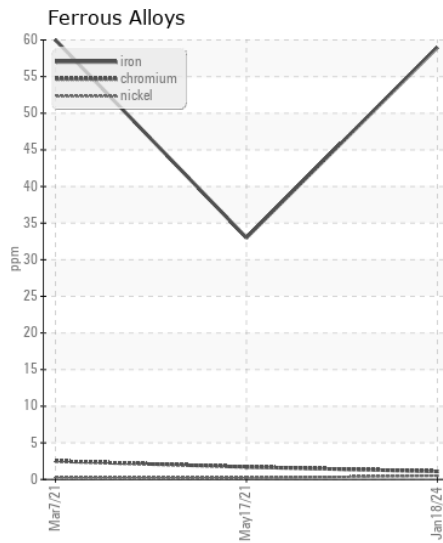
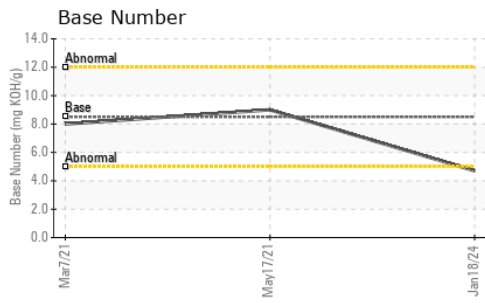
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 7 | 12 |
| Potassium | ppm | ASTM D5185m | >20 | 10 | ▲ 56 | ▲ 112 |
| Fuel | | WC Method | >3.0 | <1.0 | ▲ 1.5 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >6 | 0.8 | 0.5 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 15.3 | 11.6 | 12 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 30.1 | 23.8 | 26 |
| 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 | 0 | 3 | <1 |
| Boron | ppm | ASTM D5185m | 250 | 5 | 9 | 4 |
| Barium | ppm | ASTM D5185m | 10 | 2 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 100 | 89 | 72 | 56 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 1 |
| Magnesium | ppm | ASTM D5185m | 450 | 1056 | 842 | 826 |
| Calcium | ppm | ASTM D5185m | 3000 | 1294 | 1087 | 1334 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1133 | 947 | 951 |
| Zinc | ppm | ASTM D5185m | 1350 | 1401 | 1097 | 1187 |
| Sulfur | ppm | ASTM D5185m | 4250 | 3150 | 2414 | 2495 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 29.2 | 19.2 | 21.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 4.7 | 9 | 8 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.4 | ▲ 12.4 | 12.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0829830
Lab Number : 06077537
Unique Number : 10859628
Test Package : FLEET

Received : 01 Feb 2024
Tested : 02 Feb 2024
Diagnosed : 04 Feb 2024 - Don Baldrige

SALEM NATIONALEASE CORPORATION
 198 PARK PLAZA DRIVE
 WINSTON SALEM, NC
 US 27105

Contact: Audrey Hopkins
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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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