



OIL ANALYSIS REPORT

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

Machine Id
44736
Component
Diesel Engine
Fluid
SHELL ROTELLA T 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0829898 | WC0711250 | WC0634568 |
| Sample Date | | Client Info | | 29 Jan 2024 | 08 May 2023 | 01 Feb 2022 |
| Machine Age | mls | Client Info | | 497674 | 414808 | 0 |
| Oil Age | mls | Client Info | | 0 | 0 | 25000 |
| Filter Age | mls | Client Info | | 0 | 0 | 25000 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 26 | 24 | 15 |
| Chromium | ppm | ASTM D5185m | >20 | 2 | 2 | 1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >20 | 12 | 16 | 8 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >330 | 4 | 6 | 19 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 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

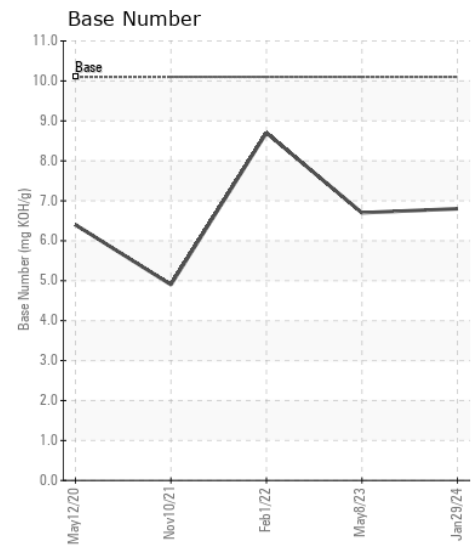
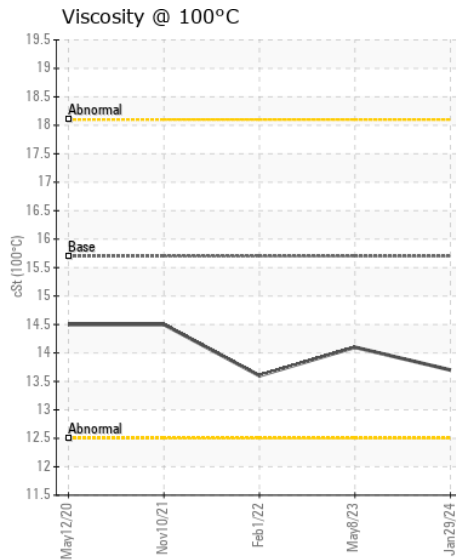
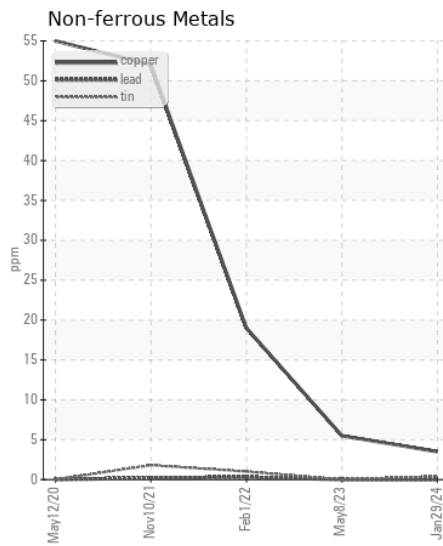
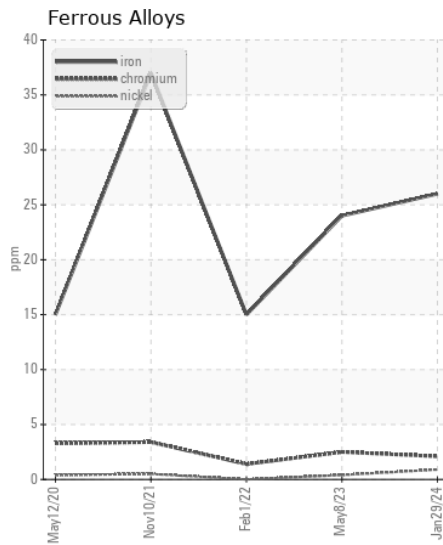
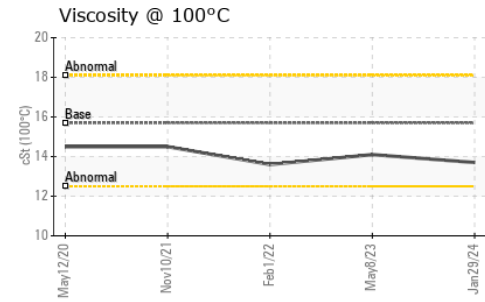
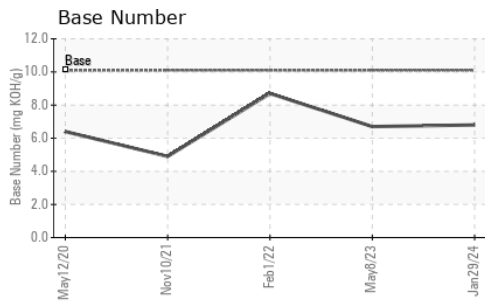
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 5 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 2 | 4 |
| 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 | 0.6 | 0.7 | 0.5 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 9.8 | 10.5 | 10.4 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 23.3 | 24.8 | 23.7 |
| 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 | | 3 | 1 | <1 |
| Boron | ppm | ASTM D5185m | 316 | 3 | <1 | 4 |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 1.2 | 65 | 63 | 64 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 24 | 1003 | 1046 | 1077 |
| Calcium | ppm | ASTM D5185m | 2292 | 1124 | 1139 | 1223 |
| Phosphorus | ppm | ASTM D5185m | 1064 | 1093 | 1021 | 1120 |
| Zinc | ppm | ASTM D5185m | 1160 | 1324 | 1349 | 1306 |
| Sulfur | ppm | ASTM D5185m | 4996 | 2804 | 3295 | 2533 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 20.1 | 21.4 | 19.9 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.1 | 6.8 | 6.7 | 8.7 |
| Visc @ 100°C | cSt | ASTM D445 | 15.7 | 13.7 | 14.1 | 13.6 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0829898

Lab Number : 06087969

Unique Number : 10875414

Test Package : FLEET

Received : 13 Feb 2024

Tested : 14 Feb 2024

Diagnosed : 15 Feb 2024 - Don Baldrige

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE

WINSTON SALEM, NC

US 27105

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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)