



OIL ANALYSIS REPORT

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

Machine Id
77103
Component
Gasoline Engine
Fluid
GASOLINE ENGINE OIL SAE 0W20 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | WC0945847 | --- | --- |
| Sample Date | | Client Info | | 12 Jul 2024 | --- | --- |
| Machine Age | mls | Client Info | | 8000 | --- | --- |
| Oil Age | mls | Client Info | | 8000 | --- | --- |
| Filter Age | mls | Client Info | | 8000 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | Changed | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185m | >150 | 65 | --- | --- |
| Chromium | ppm | ASTM D5185m | >20 | 2 | --- | --- |
| Nickel | ppm | ASTM D5185m | >5 | 1 | --- | --- |
| Titanium | ppm | ASTM D5185m | | <1 | --- | --- |
| Silver | ppm | ASTM D5185m | >2 | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >40 | 11 | --- | --- |
| Lead | ppm | ASTM D5185m | >50 | 2 | --- | --- |
| Copper | ppm | ASTM D5185m | >155 | 27 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

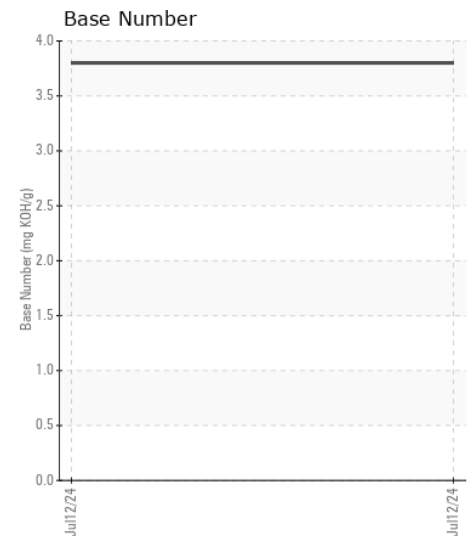
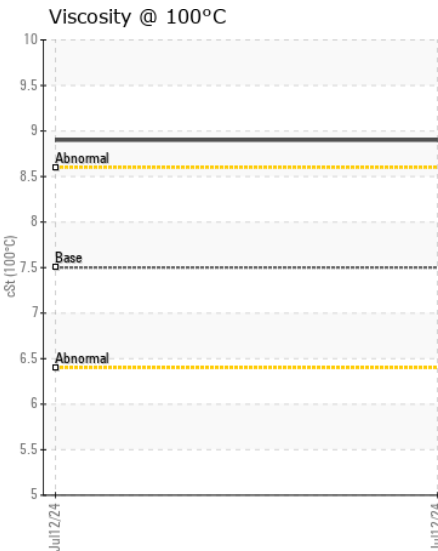
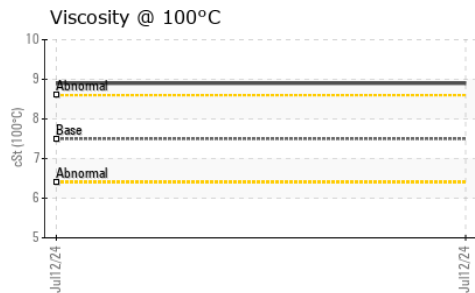
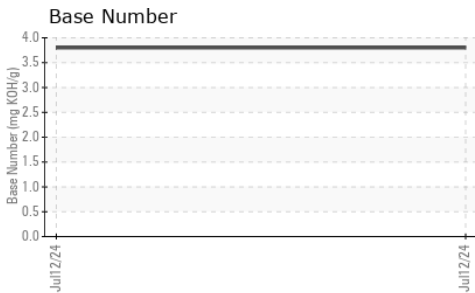
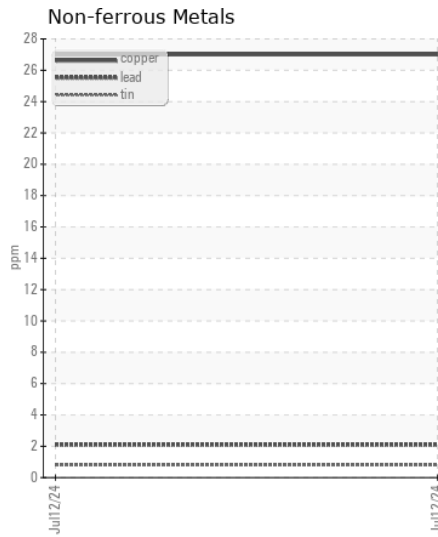
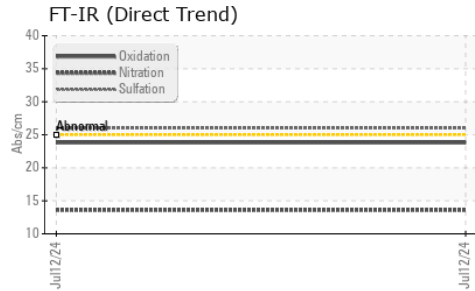
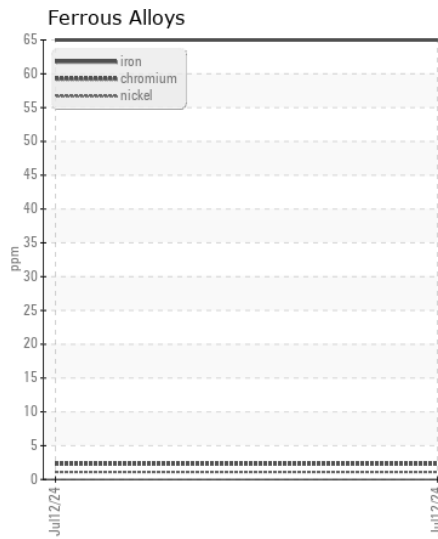
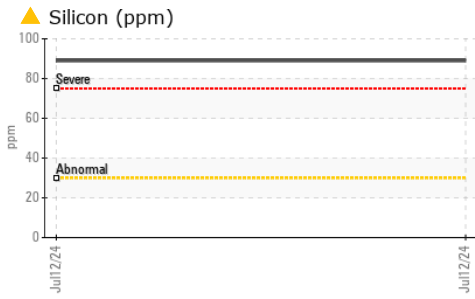
Elemental level of silicon (Si) above normal indicating ingress of seal material.

| | | | | | | |
|------------------|----------|-------------|-------|-------|-----|-----|
| Silicon | ppm | ASTM D5185m | >30 | ▲ 89 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 10 | --- | --- |
| Fuel | | WC Method | >4.0 | <1.0 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| Glycol | | WC Method | | NEG | --- | --- |
| Soot % | % | *ASTM D7844 | | 0.1 | --- | --- |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 13.6 | --- | --- |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 26.0 | --- | --- |
| 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 | --- | --- |

FLUID CONDITION

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

| | | | | | | |
|------------------|----------|-------------|------|------|-----|-----|
| Sodium | ppm | ASTM D5185m | >400 | 20 | --- | --- |
| Boron | ppm | ASTM D5185m | 75 | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 5 | 0 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 100 | 166 | --- | --- |
| Manganese | ppm | ASTM D5185m | | 51 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 12 | 491 | --- | --- |
| Calcium | ppm | ASTM D5185m | 2100 | 1363 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 650 | 707 | --- | --- |
| Zinc | ppm | ASTM D5185m | 850 | 847 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 2500 | 2295 | --- | --- |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 23.8 | --- | --- |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 3.8 | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 7.5 | 8.9 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0945847
Lab Number : 06237295
Unique Number : 11126129
Test Package : FLEET

Received : 15 Jul 2024
Tested : 17 Jul 2024
Diagnosed : 17 Jul 2024 - Don Baldrige

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

Contact: Audrey Hopkins
 Audrey.Hopkins@salemcorp.com

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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