



OIL ANALYSIS REPORT

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

Machine Id
GENERAC PILOT ELEMENTARY SCHOOL NS

Component
Propane Engine

Fluid
SHELL ROTELLA T 15W40 (4 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0887903 | WC0647397 | WC0514316 |
| Sample Date | | Client Info | | 19 Feb 2024 | 18 Feb 2022 | 30 Dec 2020 |
| Machine Age | hrs | Client Info | | 560 | 572 | 488 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Metal levels are typical for a new component breaking in.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 4 | 3 | 1 |
| Chromium | ppm | ASTM D5185m | >25 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >5 | 0 | 0 | 2 |
| Aluminum | ppm | ASTM D5185m | >20 | 6 | 3 | 0 |
| Lead | ppm | ASTM D5185m | >25 | 1 | <1 | <1 |
| Copper | ppm | ASTM D5185m | >35 | 1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >8 | 1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

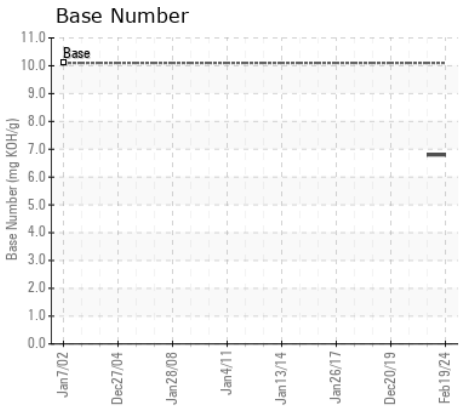
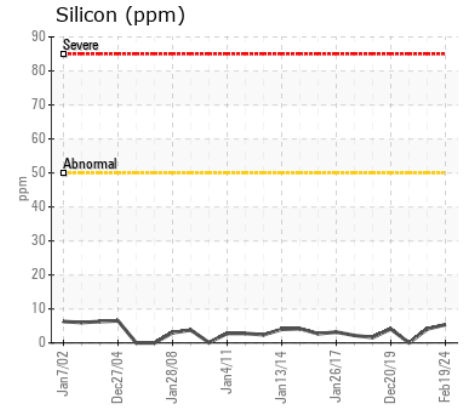
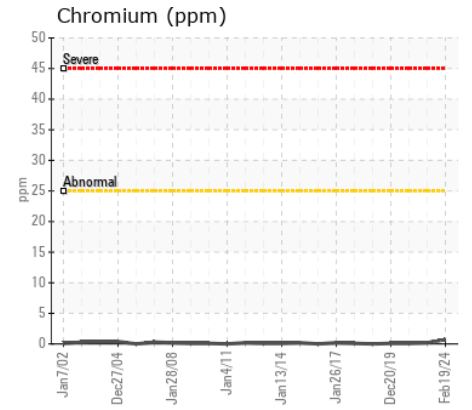
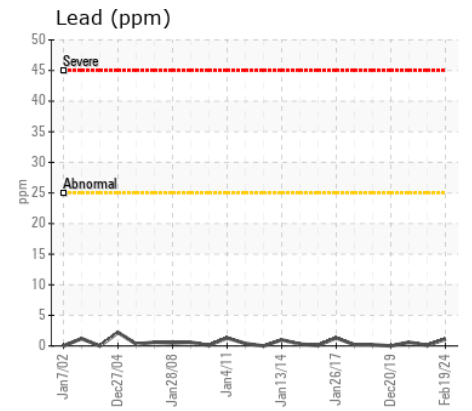
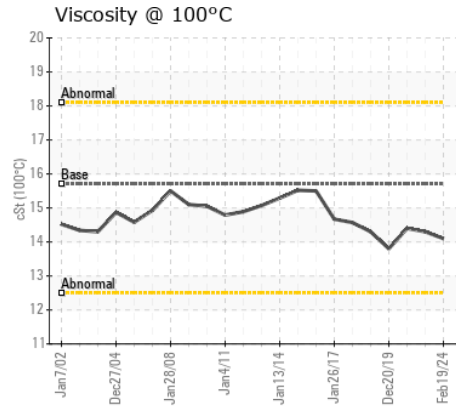
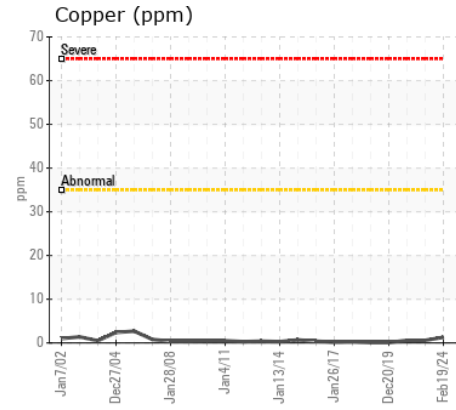
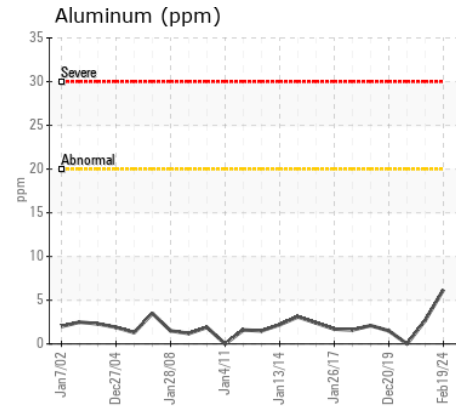
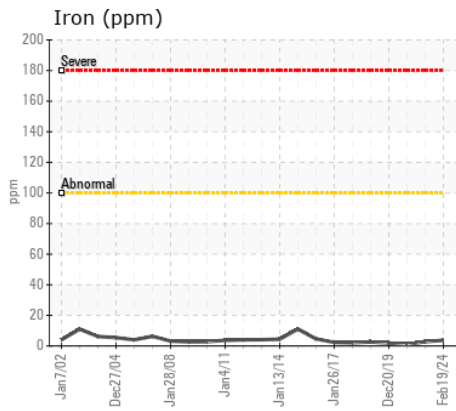
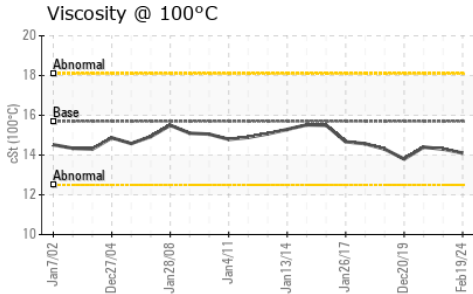
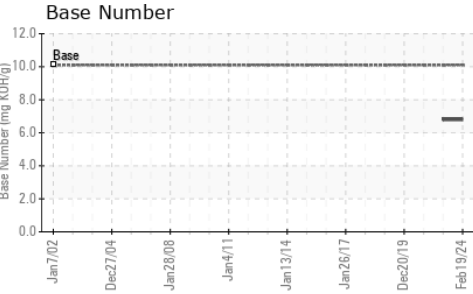
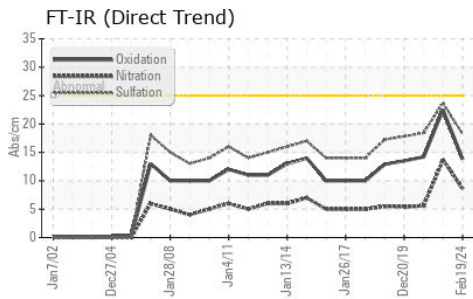
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 5 | 4 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | | 0 | 0.6 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.6 | 13.7 | 5.6 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.2 | 23.7 | 18.4 |
| 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 | >0.1 | 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 | | 2 | 2 | 1 |
| Boron | ppm | ASTM D5185m | 316 | 82 | 85 | 4 |
| Barium | ppm | ASTM D5185m | 0.0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 1.2 | 84 | 64 | 60 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 24 | 138 | 484 | 914 |
| Calcium | ppm | ASTM D5185m | 2292 | 2116 | 1878 | 1059 |
| Phosphorus | ppm | ASTM D5185m | 1064 | 1109 | 1111 | 1035 |
| Zinc | ppm | ASTM D5185m | 1160 | 1177 | 1276 | 1271 |
| Sulfur | ppm | ASTM D5185m | 4996 | 3880 | 3314 | 2756 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.8 | 22.5 | 14.2 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.1 | 6.8 | 6.8 | --- |
| Visc @ 100°C | cSt | ASTM D445 | 15.7 | 14.1 | 14.3 | 14.4 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0887903
Lab Number : 06146917
Unique Number : 10976995
Test Package : MOB 1

Received : 12 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 15 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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