



OIL ANALYSIS REPORT

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

Machine Id
SVETRUCK 631102
Component
Front Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (36 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0926261 | WC0871759 | WC0834197 |
| Sample Date | | Client Info | | 08 Apr 2024 | 21 Feb 2024 | 23 Jan 2024 |
| Machine Age | hrs | Client Info | | 0 | 206 | 197 |
| Oil Age | hrs | Client Info | | 0 | 206 | 197 |
| Filter Age | hrs | Client Info | | 0 | 206 | 197 |
| 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 | >90 | 5 | 7 | 8 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | 3 | <1 |
| Lead | ppm | ASTM D5185m | >40 | 1 | <1 | 1 |
| Copper | ppm | ASTM D5185m | >330 | 4 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <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

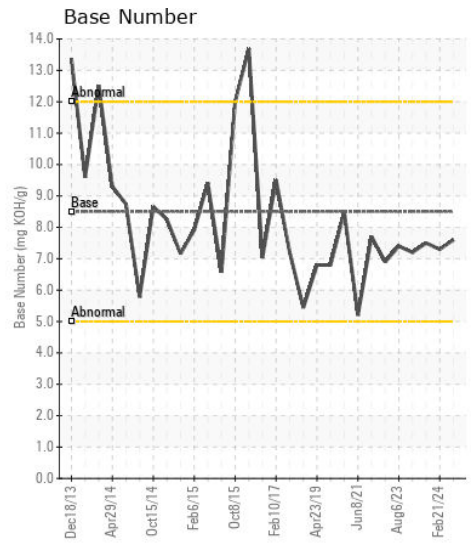
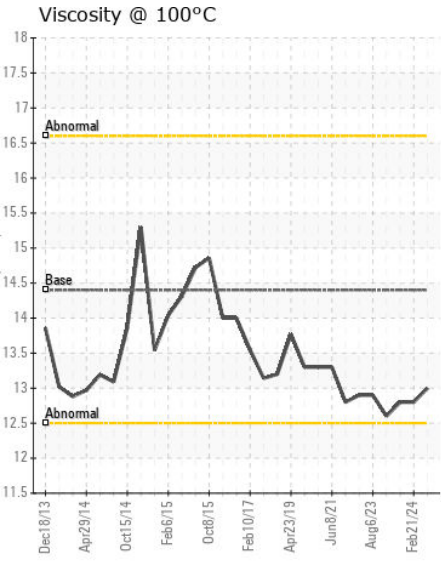
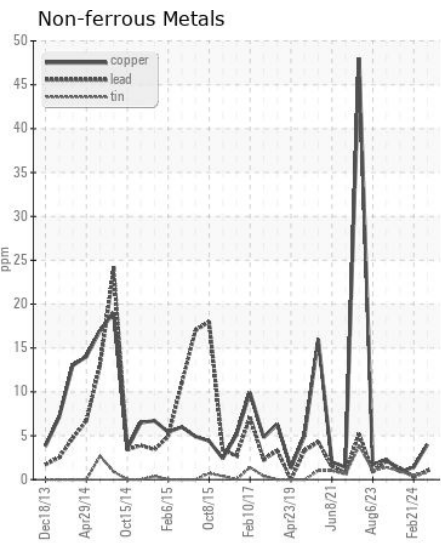
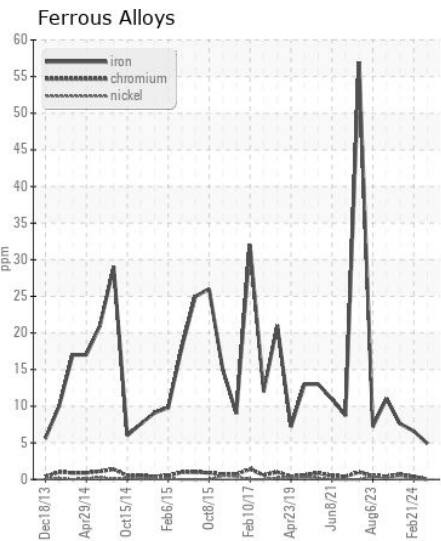
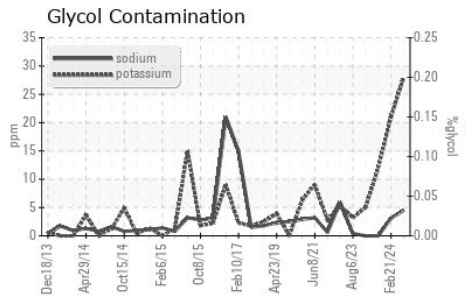
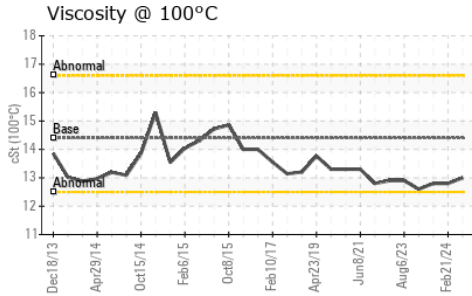
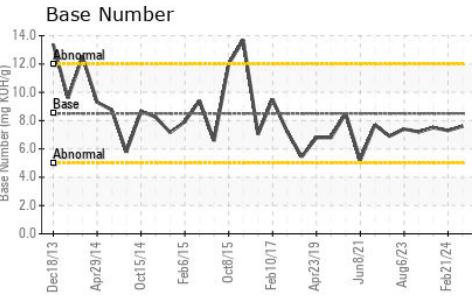
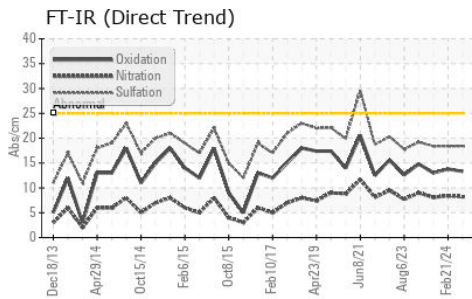
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 4 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 28 | 21 | 12 |
| Fuel | | WC Method | >3.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | % | *ASTM D2982 | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >6 | 0.2 | 0.1 | 0.2 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 8.2 | 8.4 | 8.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 18.4 | 18.4 | 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 | >0.2 | 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 | 4 | 3 | 0 |
| Boron | ppm | ASTM D5185m | 250 | 106 | 118 | 111 |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 100 | 14 | 47 | 30 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | 450 | 672 | 712 | 749 |
| Calcium | ppm | ASTM D5185m | 3000 | 1363 | 1249 | 1238 |
| Phosphorus | ppm | ASTM D5185m | 1150 | 689 | 682 | 687 |
| Zinc | ppm | ASTM D5185m | 1350 | 781 | 810 | 854 |
| Sulfur | ppm | ASTM D5185m | 4250 | 3348 | 3100 | 3043 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 13.3 | 13.8 | 13.0 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 7.6 | 7.3 | 7.5 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 13.0 | 12.8 | 12.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0926261 **Received** : 16 Apr 2024
Lab Number : 06151007 **Tested** : 19 Apr 2024
Unique Number : 10981085 **Diagnosed** : 19 Apr 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: Glycol)

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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)