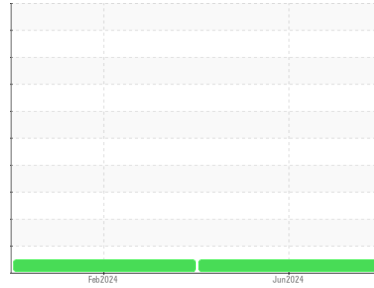


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**LONGVIEW**  
Machine Id  
**GEFCO 868-2**  
Component  
**Right Diesel Engine**  
Fluid  
**TULCO LUBSOIL CK-4 15W40 (30 GAL)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the oil.

**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.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|----------|
| Sample Number      | Client Info |             |            | <b>TO10003536</b>  | TO50002124  | ---      |
| Sample Date        | Client Info |             |            | <b>07 Jun 2024</b> | 17 Feb 2024 | ---      |
| Machine Age        | hrs         | Client Info |            | <b>15082</b>       | 13736       | ---      |
| Oil Age            | hrs         | Client Info |            | <b>865</b>         | 781         | ---      |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | Changed     | ---      |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | ---      |

| CONTAMINATION |           | method | limit/base | current        | history1 | history2 |
|---------------|-----------|--------|------------|----------------|----------|----------|
| Fuel          | WC Method | >5     |            | <b>&lt;1.0</b> | <1.0     | ---      |
| Water         | WC Method | >0.2   |            | <b>NEG</b>     | NEG      | ---      |
| Glycol        | WC Method |        |            | <b>NEG</b>     | NEG      | ---      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >100       | <b>10</b>    | 10       | ---      |
| Chromium    | ppm | ASTM D5185m | >20        | <b>&lt;1</b> | <1       | ---      |
| Nickel      | ppm | ASTM D5185m | >2         | <b>0</b>     | <1       | ---      |
| Titanium    | ppm | ASTM D5185m | >2         | <b>0</b>     | <1       | ---      |
| Silver      | ppm | ASTM D5185m | >2         | <b>0</b>     | <1       | ---      |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>3</b>     | 1        | ---      |
| Lead        | ppm | ASTM D5185m | >40        | <b>3</b>     | 2        | ---      |
| Copper      | ppm | ASTM D5185m | >330       | <b>15</b>    | 12       | ---      |
| Tin         | ppm | ASTM D5185m | >15        | <b>2</b>     | 2        | ---      |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | <1       | ---      |

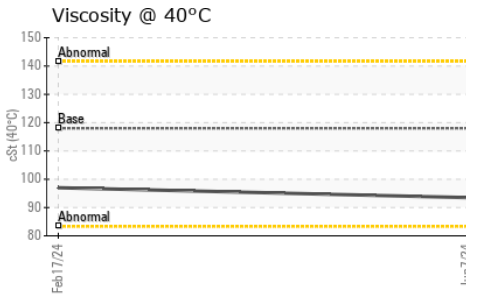
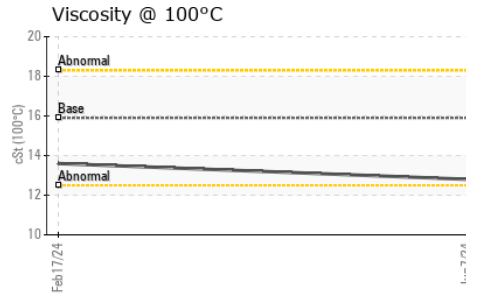
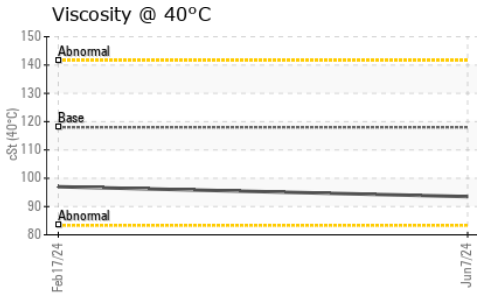
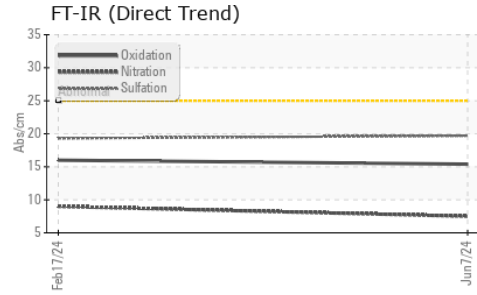
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>1</b>     | 47       | ---      |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 5        | ---      |
| Molybdenum | ppm | ASTM D5185m | 65         | <b>67</b>    | 66       | ---      |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | <1       | ---      |
| Magnesium  | ppm | ASTM D5185m | 1060       | <b>1083</b>  | 203      | ---      |
| Calcium    | ppm | ASTM D5185m | 1140       | <b>1361</b>  | 1689     | ---      |
| Phosphorus | ppm | ASTM D5185m | 1170       | <b>1162</b>  | 933      | ---      |
| Zinc       | ppm | ASTM D5185m | 1230       | <b>1450</b>  | 1080     | ---      |
| Sulfur     | ppm | ASTM D5185m | 3130       | <b>5012</b>  | 4462     | ---      |

| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >25        | <b>4</b> | 5        | ---      |
| Sodium       | ppm | ASTM D5185m |            | <b>1</b> | 0        | ---      |
| Potassium    | ppm | ASTM D5185m | >20        | <b>4</b> | 2        | ---      |

| INFRA-RED |          | method      | limit/base | current     | history1 | history2 |
|-----------|----------|-------------|------------|-------------|----------|----------|
| Soot %    | %        | *ASTM D7844 | >3         | <b>0.1</b>  | 0.1      | ---      |
| Nitration | Abs/cm   | *ASTM D7624 | >20        | <b>7.5</b>  | 9.0      | ---      |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30        | <b>19.7</b> | 19.3     | ---      |

| FLUID DEGRADATION |          | method      | limit/base | current      | history1 | history2 |
|-------------------|----------|-------------|------------|--------------|----------|----------|
| Oxidation         | Abs/.1mm | *ASTM D7414 | >25        | <b>15.4</b>  | 16.0     | ---      |
| Base Number (BN)  | mg KOH/g | ASTM D2896  | 10.8       | <b>10.41</b> | 9.09     | ---      |

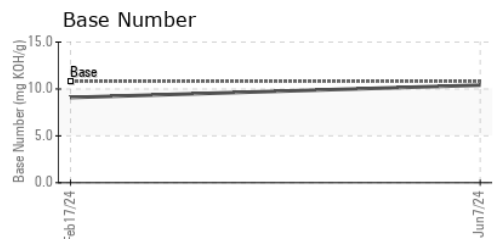
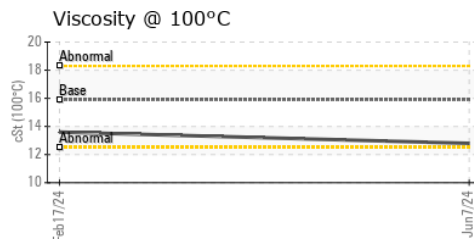
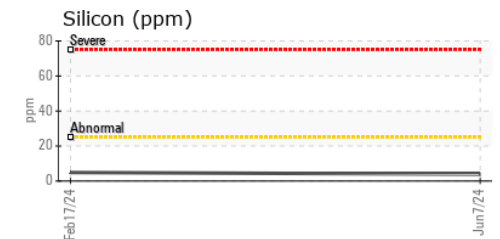
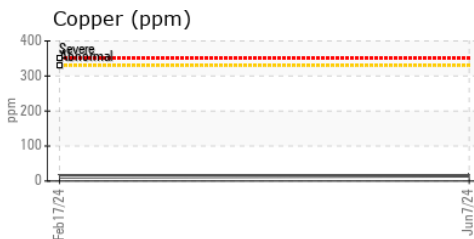
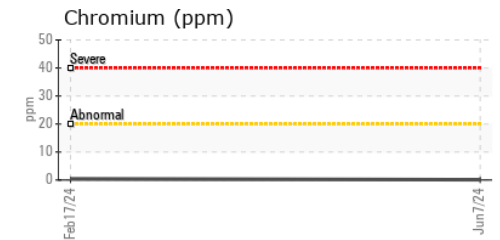
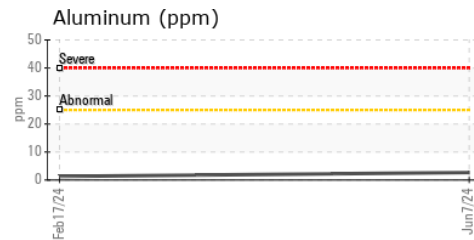
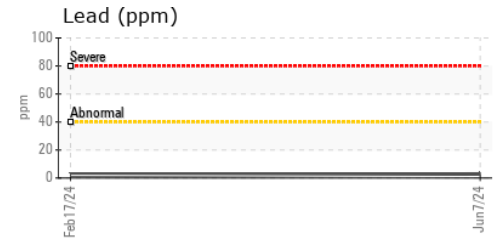
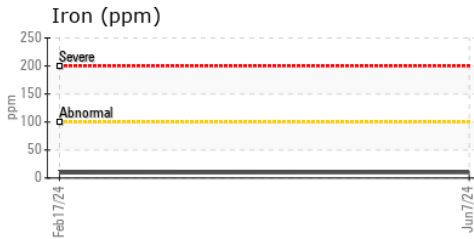
# OIL ANALYSIS REPORT



| VISUAL           | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | ---      |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | ---      |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | ---      |
| 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      | ---      |
| Free Water       | scalar | *Visual    |         | NEG      | ---      |

| FLUID PROPERTIES     | method | limit/base | current | history1 | history2 |
|----------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C          | cSt    | ASTM D445  | 118     | 93.5     | 97.0     |
| Visc @ 100°C         | cSt    | ASTM D445  | 15.9    | 12.8     | 13.6     |
| Viscosity Index (VI) | Scale  | ASTM D2270 | 143     | 133      | 140      |

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10003536 **Received** : 12 Jun 2024  
**Lab Number** : 06208007 **Tested** : 14 Jun 2024  
**Unique Number** : 11075468 **Diagnosed** : 14 Jun 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV40, VI )

**KLX ENERGY SERVICES**  
 5104 ESTES PKWY  
 LONGVIEW, TX  
 US 75603  
 Contact: DUSTIN TREST  
 dustin.trest@klx.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)