



WEAR CHECK

OIL ANALYSIS REPORT

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

Area

361.266

Machine Id

F WALKER CRANE (S/N 361.266)

Component

Diesel Engine

Fluid

CHEVRON DELO 400 MULTIGRADE 15W40 (41 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0720205 | WC0720208 | WC0534820 |
| Sample Date | | Client Info | | 07 Apr 2023 | 03 Nov 2022 | 22 Sep 2022 |
| Machine Age | hrs | Client Info | | 15945 | 13821 | 10528 |
| Oil Age | hrs | Client Info | | 500 | 500 | 0 |
| Filter Age | hrs | Client Info | | 500 | 500 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | Changed | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >90 | 6 | 5 | 16 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 3 | 3 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 2 | 3 | 3 |
| Copper | ppm | ASTM D5185m | >330 | 3 | 5 | <1 |
| Tin | ppm | ASTM D5185m | >15 | <1 | 1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

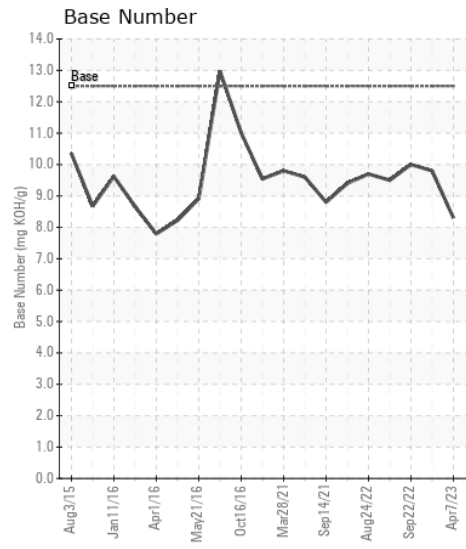
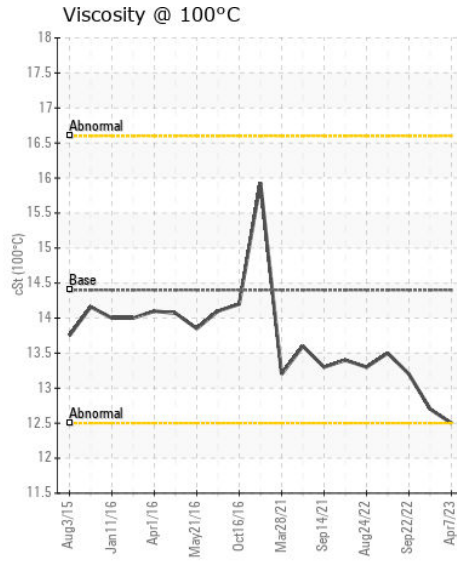
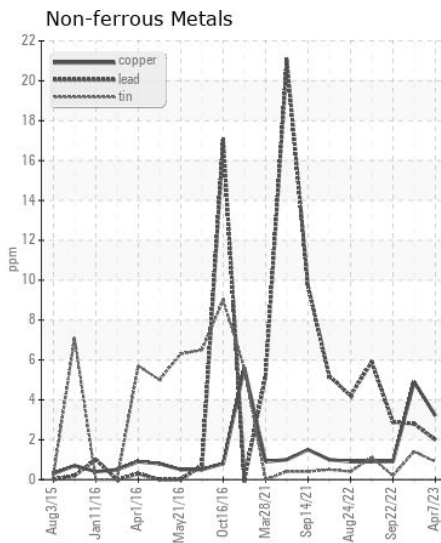
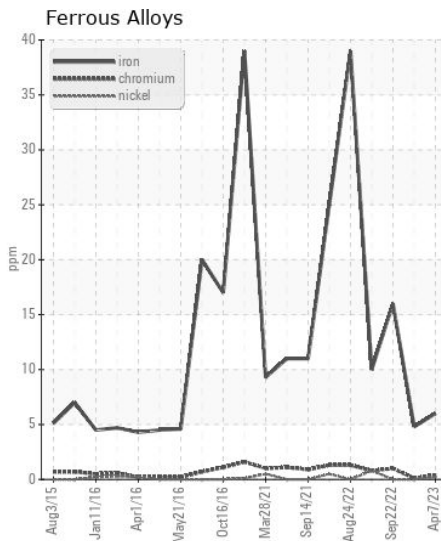
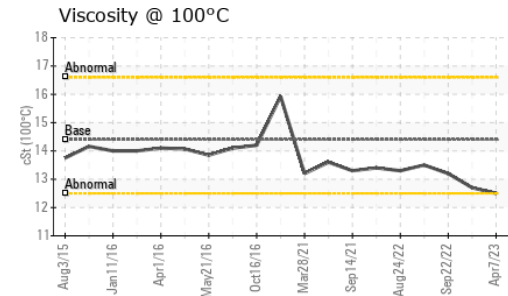
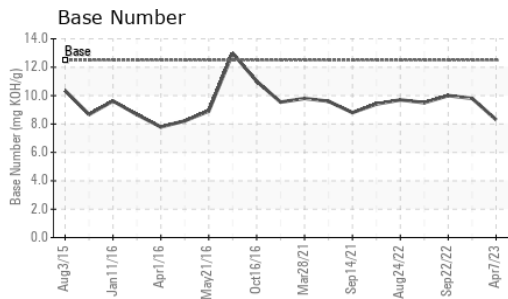
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 5 | 9 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 4 | 2 |
| 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 | >6 | 0.2 | 0.1 | 0.7 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.1 | 6.7 | 10.0 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.9 | 24.4 | 25.9 |
| 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 | | 4 | 4 | 5 |
| Boron | ppm | ASTM D5185m | 151 | 383 | 347 | 275 |
| Barium | ppm | ASTM D5185m | 0.4 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 250 | 116 | 115 | 113 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | 664 | 643 | 621 |
| Calcium | ppm | ASTM D5185m | 2046 | 1587 | 1535 | 1590 |
| Phosphorus | ppm | ASTM D5185m | 1043 | 745 | 713 | 728 |
| Zinc | ppm | ASTM D5185m | 943 | 895 | 835 | 888 |
| Sulfur | ppm | ASTM D5185m | 5012 | 3118 | 3047 | 2804 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.3 | 17.4 | 19.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 12.5 | 8.3 | 9.8 | 10 |
| Visc @ 100°C | cSt | ASTM D445 | 14.4 | 12.5 | 12.7 | 13.2 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0720205 **Received** : 14 Apr 2023
Lab Number : 05820836 **Diagnosed** : 17 Apr 2023
Unique Number : 10428919 **Diagnostician** : Wes Davis
Test Package : FLEET

ASSOCIATED TERMINALS - CRANE

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 US 70723
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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)