



|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Machine Id  
**SANDY LOU**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON URSA SUPER PLUS 40 (6 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>MW0047385</b>   | MW0047399   | MW0047391   |
| Sample Date    |     | Client Info |           | <b>13 Mar 2024</b> | 30 Jan 2024 | 23 Nov 2023 |
| Machine Age    | hrs | Client Info |           | <b>32035</b>       | 27378       | 26768       |
| Oil Age        | hrs | Client Info |           | <b>334</b>         | 610         | 703         |
| Filter Age     | hrs | Client Info |           | <b>334</b>         | 610         | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>None</b>        | Changed     | None        |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >150 | <b>50</b>    | 62   | 62   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | <1   | <1   |
| Lead         | ppm    | ASTM D5185m | >100 | <b>10</b>    | 14   | 16   |
| Copper       | ppm    | ASTM D5185m | >50  | <b>13</b>    | 20   | 24   |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 1    | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

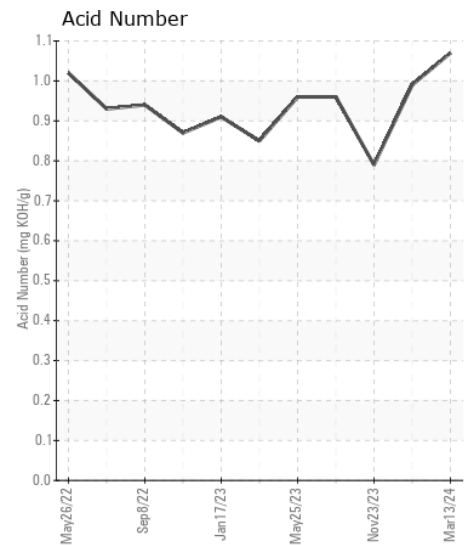
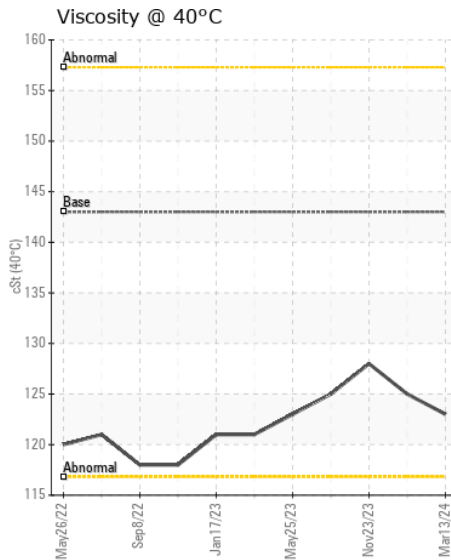
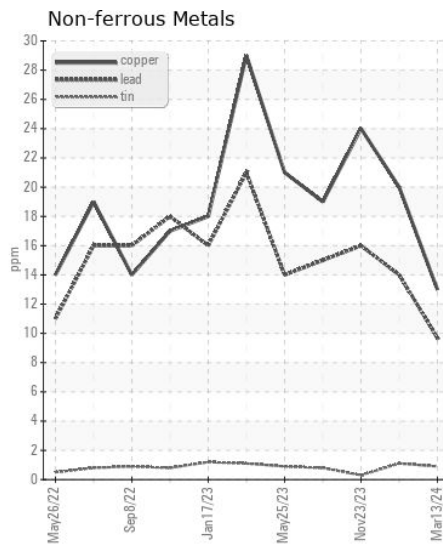
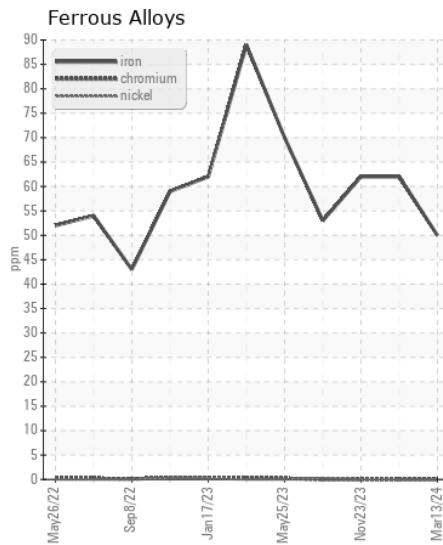
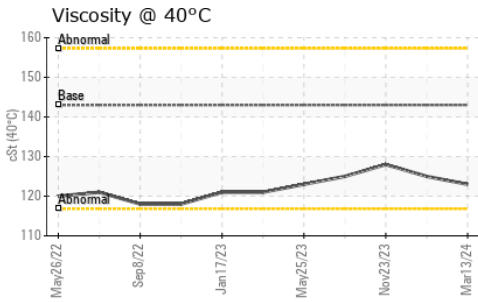
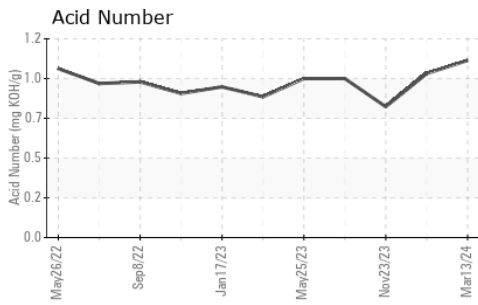
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>8</b>     | 6     | 10    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 2     | <1    |
| Water            |        | WC Method   | >0.1  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.1  | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |             |      |              |      |      |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium           | ppm      | ASTM D5185m |      | <b>2</b>     | 2    | 3    |
| Boron            | ppm      | ASTM D5185m |      | <b>264</b>   | 249  | 286  |
| Barium           | ppm      | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>31</b>    | 29   | 29   |
| Manganese        | ppm      | ASTM D5185m |      | <b>&lt;1</b> | 2    | 1    |
| Magnesium        | ppm      | ASTM D5185m |      | <b>109</b>   | 91   | 107  |
| Calcium          | ppm      | ASTM D5185m |      | <b>2204</b>  | 2018 | 2217 |
| Phosphorus       | ppm      | ASTM D5185m | 1000 | <b>703</b>   | 612  | 673  |
| Zinc             | ppm      | ASTM D5185m | 1090 | <b>790</b>   | 730  | 791  |
| Sulfur           | ppm      | ASTM D5185m |      | <b>3082</b>  | 2500 | 2604 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |      | <b>1.07</b>  | 0.99 | 0.79 |
| Visc @ 40°C      | cSt      | ASTM D445   | 143  | <b>123</b>   | 125  | 128  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : MW0047385

**Lab Number** : 06121690

**Unique Number** : 10930523

**Test Package** : MAR 2

**Received** : 18 Mar 2024

**Tested** : 19 Mar 2024

**Diagnosed** : 19 Mar 2024 - Wes Davis

**OSAGE MARINE**

7501 E DAVIS ST

ST LOUIS, MO

US 63111

Contact: MIKE KESSLER

mike.kessler@osagemarine.com

T:

F:

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)