



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

Area

**CPT OA FRANKS**

Machine Id

**[CPT OA FRANKS] 006 586734-6**

Component

**Starboard Reduction Gear**

Fluid

**CHEVRON URSA SUPER PLUS 40 (17 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>MW06153817</b>  | MW06121719  | MW06131488  |
| Sample Date    |     | Client Info |           | <b>26 Mar 2024</b> | 29 Feb 2024 | 01 Feb 2024 |
| Machine Age    | hrs | Client Info |           | <b>101444</b>      | 101343      | 100311      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 1447        | 771         |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >150 | <b>4</b>     | 2    | 2    |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | <1   |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | <1   |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | <1   |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>2</b>     | <1   | 2    |
| Lead         | ppm    | ASTM D5185m | >100 | <b>1</b>     | <1   | <1   |
| Copper       | ppm    | ASTM D5185m | >50  | <b>8</b>     | 7    | 9    |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | <1   |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | <1   |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

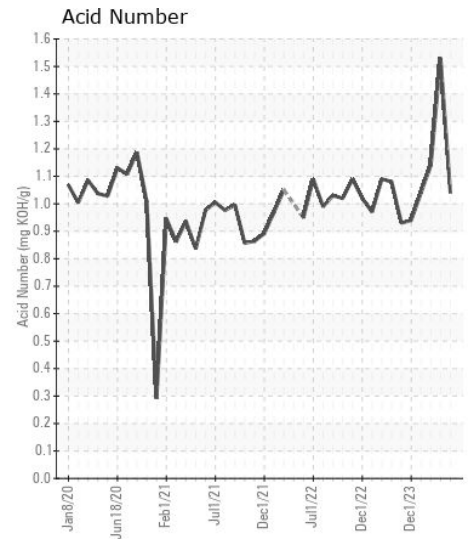
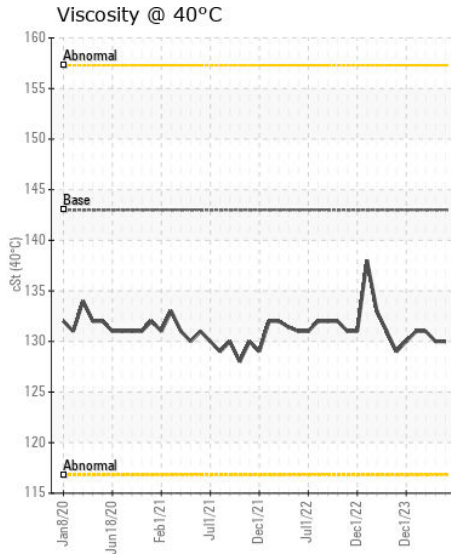
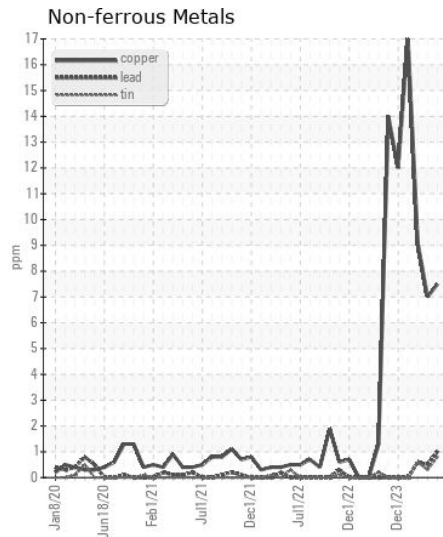
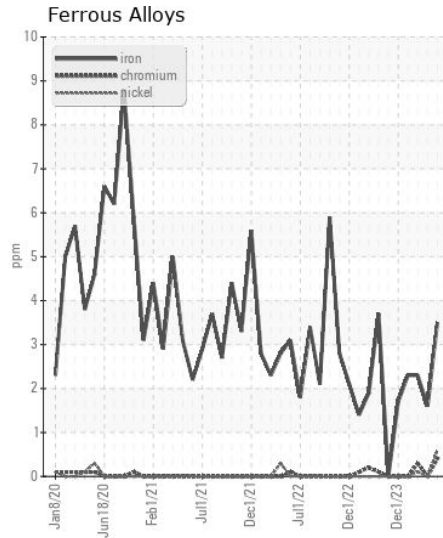
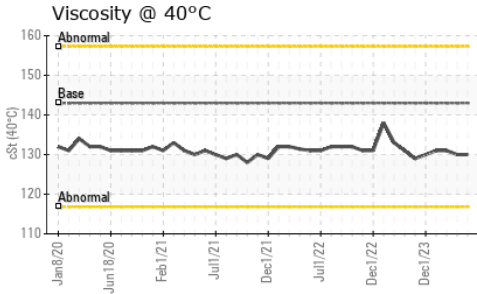
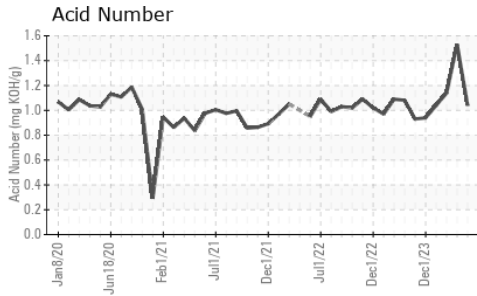
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>5</b>     | 4     | 5     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 2     | 2     |
| 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>  | LIGHT | 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>0</b>     | 2    | 0    |
| Boron            | ppm      | ASTM D5185m |      | <b>387</b>   | 289  | 321  |
| Barium           | ppm      | ASTM D5185m |      | <b>2</b>     | 0    | 0    |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>33</b>    | 31   | 33   |
| Manganese        | ppm      | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Magnesium        | ppm      | ASTM D5185m |      | <b>11</b>    | 12   | 10   |
| Calcium          | ppm      | ASTM D5185m |      | <b>2412</b>  | 2314 | 2407 |
| Phosphorus       | ppm      | ASTM D5185m | 1000 | <b>696</b>   | 663  | 689  |
| Zinc             | ppm      | ASTM D5185m | 1090 | <b>771</b>   | 738  | 753  |
| Sulfur           | ppm      | ASTM D5185m |      | <b>3364</b>  | 3330 | 3046 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |      | <b>1.04</b>  | 1.53 | 1.14 |
| Visc @ 40°C      | cSt      | ASTM D445   | 143  | <b>130</b>   | 130  | 131  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW06153817  
**Lab Number** : 06153817  
**Unique Number** : 10989240  
**Test Package** : MAR 2

**Received** : 18 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Wes Davis

**INGRAM BARGE**  
 900 S 3RD ST  
 PADUCAH, KY  
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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)