



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

Machine Id  
**FALK GENE NEAL**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON GEAR COMPOUND EP 220 (135 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>MW0058000</b>   | MW0057815   | MW0057812   |
| Sample Date    |     | Client Info |           | <b>05 Dec 2023</b> | 06 Nov 2023 | 06 Oct 2023 |
| Machine Age    | hrs | Client Info |           | <b>14425</b>       | 26362       | 25859       |
| Oil Age        | hrs | Client Info |           | <b>14425</b>       | 13996       | 13488       |
| Filter Age     | hrs | Client Info |           | <b>372</b>         | 648         | 140         |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | N/A         | N/A         |
| Filter Changed |     | Client Info |           | <b>Not Changd</b>  | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ABNORMAL    | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >150 | <b>18</b>    | 21   | 22   |
| 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>0</b>     | <1   | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | <1   | 0    |
| Lead         | ppm    | ASTM D5185m | >100 | <b>0</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >50  | <b>3</b>     | 3    | 2    |
| Tin          | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0    |
| 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**

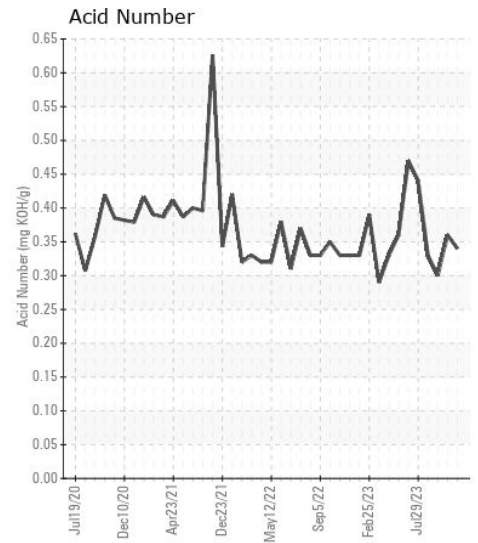
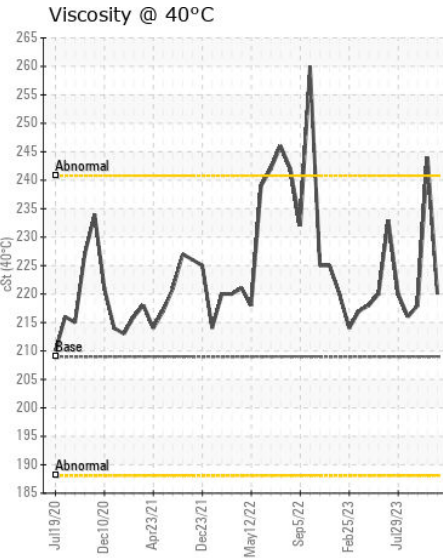
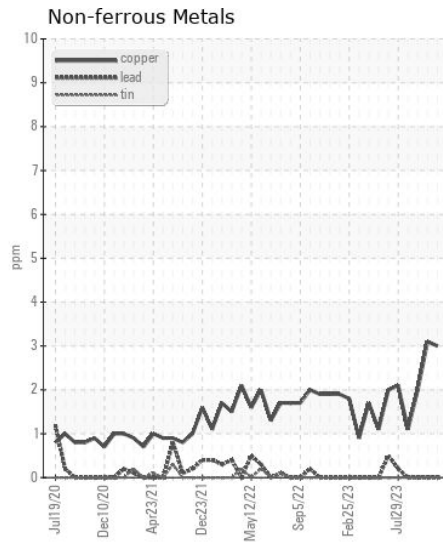
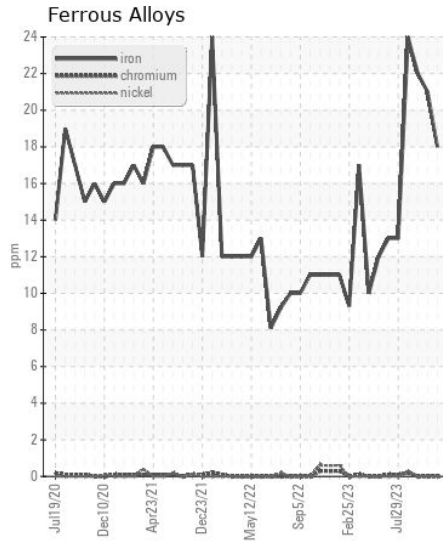
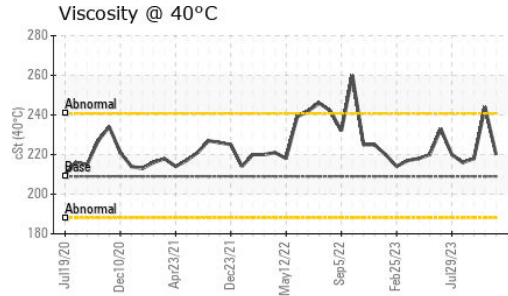
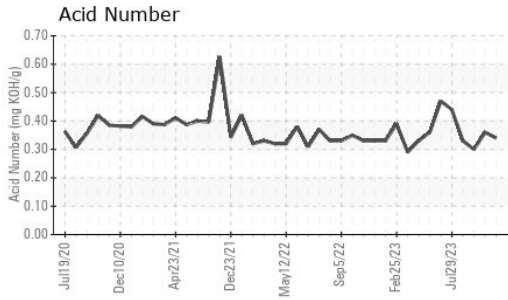
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>3</b>     | 3     | 4     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>&lt;1</b> | 1     | 3     |
| 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>53</b>    | 62    | 65   |
| Boron            | ppm      | ASTM D5185m |     | <b>10</b>    | 14    | 23   |
| Barium           | ppm      | ASTM D5185m |     | <b>0</b>     | 0     | 0    |
| Molybdenum       | ppm      | ASTM D5185m |     | <b>0</b>     | 0     | 1    |
| Manganese        | ppm      | ASTM D5185m |     | <b>&lt;1</b> | <1    | 0    |
| Magnesium        | ppm      | ASTM D5185m |     | <b>5</b>     | 3     | 21   |
| Calcium          | ppm      | ASTM D5185m |     | <b>75</b>    | 89    | 103  |
| Phosphorus       | ppm      | ASTM D5185m |     | <b>186</b>   | 193   | 203  |
| Zinc             | ppm      | ASTM D5185m |     | <b>10</b>    | 11    | 18   |
| Sulfur           | ppm      | ASTM D5185m |     | <b>5695</b>  | 5665  | 5930 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |     | <b>0.34</b>  | 0.36  | 0.30 |
| Visc @ 40°C      | cSt      | ASTM D445   | 209 | <b>220</b>   | ▲ 244 | 218  |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0058000 **Received** : 16 Jan 2024  
**Lab Number** : 06062120 **Diagnosed** : 18 Jan 2024  
**Unique Number** : 10833502 **Diagnostician** : Wes Davis  
**Test Package** : MAR 2

**MAGNOLIA MARINE TRANSPORT**  
 697 HAINING ROAD  
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 US 39183  
 Contact: MMT MAINTENANCE PLANNERS  
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 F: (601)638-8028

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)