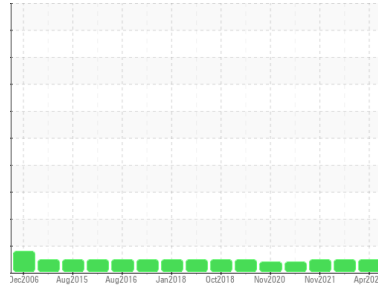




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**[1966391]**  
 Machine Id  
**0001-1020 SECONDARY**  
 Component  
**Gearbox**  
 Fluid  
**MOBIL 460 FG (3 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Drain and replace oil )

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2    |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number      | Client Info |             |            | <b>WC0887652</b>   | WC0834241   | WC0618711   |
| Sample Date        | Client Info |             |            | <b>05 Apr 2024</b> | 10 Aug 2023 | 03 Nov 2021 |
| Machine Age        | mths        | Client Info |            | <b>63</b>          | 55          | 0           |
| Oil Age            | mths        | Client Info |            | <b>63</b>          | 55          | 0           |
| Oil Changed        | Client Info |             |            | <b>Changed</b>     | Not Changd  | Not Changd  |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >0.2       | <b>NEG</b> | NEG      | NEG      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >200       | <b>8</b>     | 6        | 8        |
| Chromium    | ppm | ASTM D5185m | >15        | <b>0</b>     | 0        | <1       |
| Nickel      | ppm | ASTM D5185m | >15        | <b>&lt;1</b> | 0        | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Silver      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>1</b>     | 0        | 2        |
| Lead        | ppm | ASTM D5185m | >100       | <b>0</b>     | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >200       | <b>4</b>     | 3        | 5        |
| Tin         | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | 0        | <1       |
| Antimony    | ppm | ASTM D5185m | >5         | <b>---</b>   | ---      | 0        |
| Vanadium    | ppm | ASTM D5185m |            | <b>0</b>     | <1       | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |

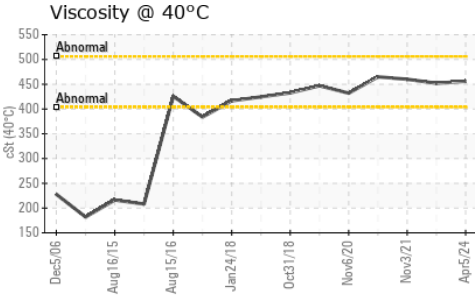
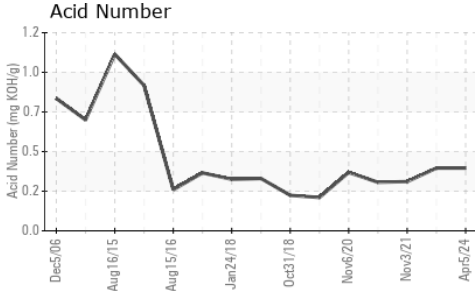
| ADDITIVES  |     | method      | limit/base | current      | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 3        |
| Barium     | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <b>0</b>     | <1       | 1        |
| Manganese  | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | <1       |
| Magnesium  | ppm | ASTM D5185m |            | <b>&lt;1</b> | 2        | 0        |
| Calcium    | ppm | ASTM D5185m |            | <b>8</b>     | 5        | 16       |
| Phosphorus | ppm | ASTM D5185m |            | <b>531</b>   | 512      | 501      |
| Zinc       | ppm | ASTM D5185m |            | <b>0</b>     | 0        | 0        |
| Sulfur     | ppm | ASTM D5185m |            | <b>784</b>   | 619      | 769      |

| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >50        | <b>1</b> | <1       | 3        |
| Sodium       | ppm | ASTM D5185m |            | <b>2</b> | 1        | <1       |
| Potassium    | ppm | ASTM D5185m | >20        | <b>5</b> | 3        | 3        |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D8045 |            | <b>0.38</b> | 0.38     | 0.298    |



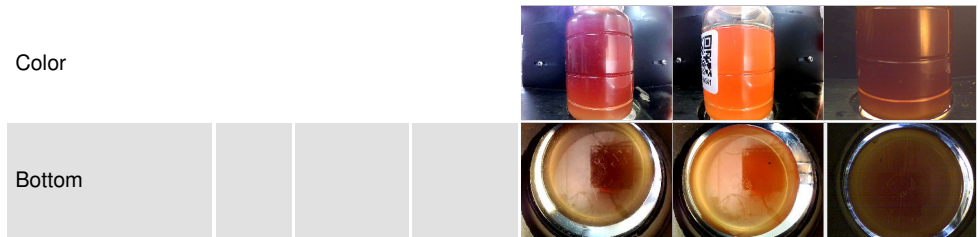
# OIL ANALYSIS REPORT



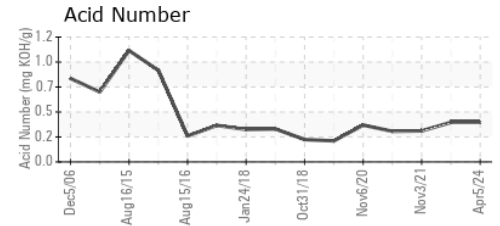
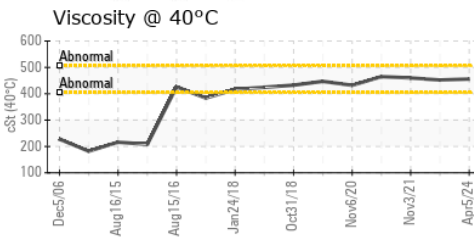
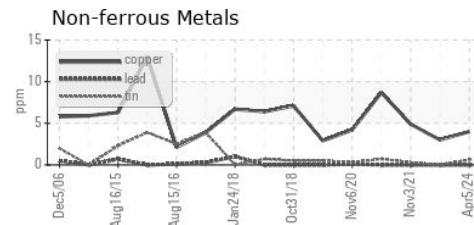
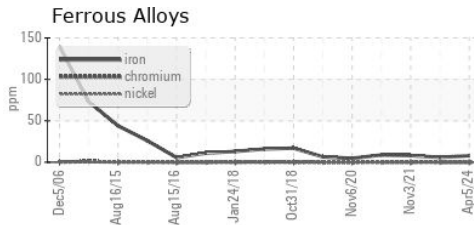
| PARAMETER        | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal      | scalar | *Visual    | NONE    | NONE     | VLITE    |
| Yellow Metal     | scalar | *Visual    | NONE    | NONE     | NONE     |
| Precipitate      | scalar | *Visual    | NONE    | NONE     | NONE     |
| Silt             | scalar | *Visual    | NONE    | NONE     | NONE     |
| Debris           | scalar | *Visual    | NONE    | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual    | NONE    | NONE     | NONE     |
| Appearance       | scalar | *Visual    | NORML   | NORML    | NORML    |
| Odor             | scalar | *Visual    | NORML   | NORML    | NORML    |
| Emulsified Water | scalar | *Visual    | >0.2    | NEG      | NEG      |
| Free Water       | scalar | *Visual    |         | NEG      | NEG      |

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C      | cSt    | ASTM D445  | 456     | 452      | 460      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0887652  
**Lab Number** : 06152142  
**Unique Number** : 10982220  
**Test Package** : IND 2

**Received** : 17 Apr 2024  
**Tested** : 18 Apr 2024  
**Diagnosed** : 22 Apr 2024 - Don Baldrige

**LEPRINO FOODS-FORT MORGAN**  
 2400 EAST BEAVER AVE  
 FORT MORGAN, CO  
 US 80701  
 Contact: KEITH SCHULTE  
 kschulte@leprinofoods.com  
 T: (970)542-4247  
 F: (970)542-4241

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)