



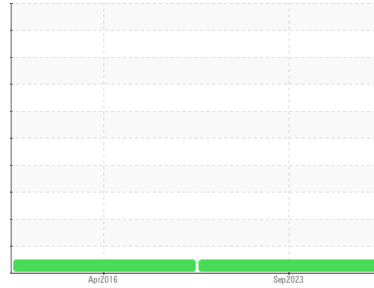
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
RP-101 [10023546085]
 Machine Id
B57012 - OVERPRESSER DISCHARGE
 Component
Gearbox
 Fluid
ISO 320 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

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 | | WC0851179 | WCI2266970 | --- |
| Sample Date | Client Info | | 24 Sep 2023 | 06 Apr 2016 | --- |
| Machine Age | mths | Client Info | 0 | 0 | --- |
| Oil Age | mths | Client Info | 0 | 0 | --- |
| Oil Changed | Client Info | | N/A | N/A | --- |
| Sample Status | | | NORMAL | NORMAL | --- |

WEAR METALS

| | method | limit/base | current | history1 | history2 | |
|----------|--------|-------------|---------|--------------|----------|-----|
| Iron | ppm | ASTM D5185m | >200 | 22 | 4 | --- |
| Chromium | ppm | ASTM D5185m | >15 | 0 | <1 | --- |
| Nickel | ppm | ASTM D5185m | >15 | <1 | <1 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | 2 | --- |
| Lead | ppm | ASTM D5185m | >100 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >200 | 0 | 0 | --- |
| Tin | ppm | ASTM D5185m | >25 | 0 | 4 | --- |
| Antimony | ppm | ASTM D5185m | >5 | --- | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | --- |

ADDITIVES

| | method | limit/base | current | history1 | history2 | |
|------------|--------|-------------|---------|-------------|----------|-----|
| Boron | ppm | ASTM D5185m | | 26 | <1 | --- |
| Barium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | | 0 | <1 | --- |
| Manganese | ppm | ASTM D5185m | | 0 | <1 | --- |
| Magnesium | ppm | ASTM D5185m | | 3 | 1 | --- |
| Calcium | ppm | ASTM D5185m | | 17 | <1 | --- |
| Phosphorus | ppm | ASTM D5185m | | 372 | 345 | --- |
| Zinc | ppm | ASTM D5185m | | 94 | 4 | --- |
| Sulfur | ppm | ASTM D5185m | | 5903 | 410 | --- |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 | |
|-----------|--------|-------------|---------|--------------|----------|-----|
| Silicon | ppm | ASTM D5185m | >50 | 8 | 9 | --- |
| Sodium | ppm | ASTM D5185m | | <1 | 3 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 3 | --- |

FLUID CLEANLINESS

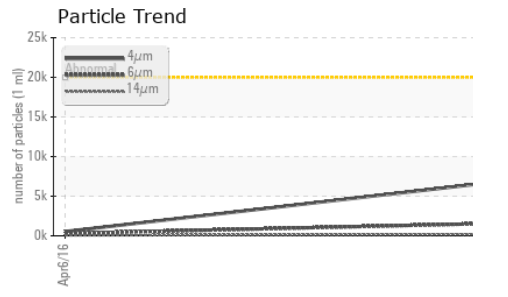
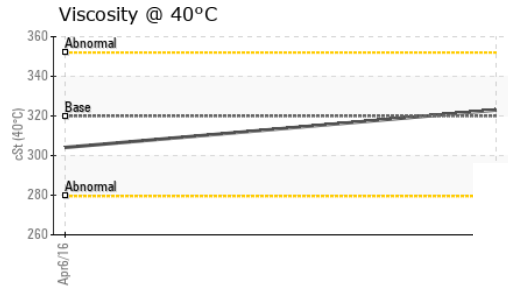
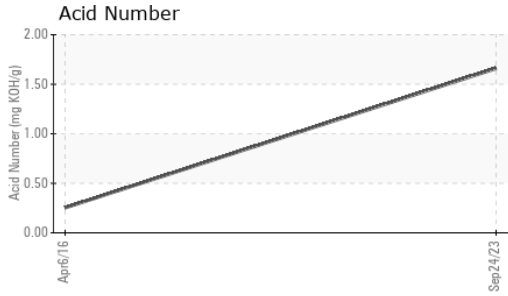
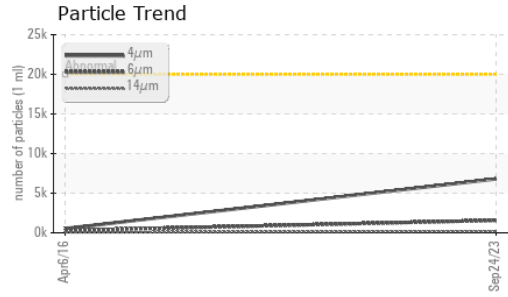
| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >20000 | 6804 | 538 | --- |
| Particles >6µm | ASTM D7647 | >5000 | 1574 | 293 | --- |
| Particles >14µm | ASTM D7647 | >640 | 170 | 49 | --- |
| Particles >21µm | ASTM D7647 | >160 | 55 | 16 | --- |
| Particles >38µm | ASTM D7647 | >40 | 5 | 2 | --- |
| Particles >71µm | ASTM D7647 | >10 | 2 | 0 | --- |
| Oil Cleanliness | ISO 4406 (c) | >21/19/16 | 20/18/15 | 16/15/13 | --- |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 | |
|------------------|----------|------------|---------|-------------|----------|-----|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 1.66 | 0.253 | --- |



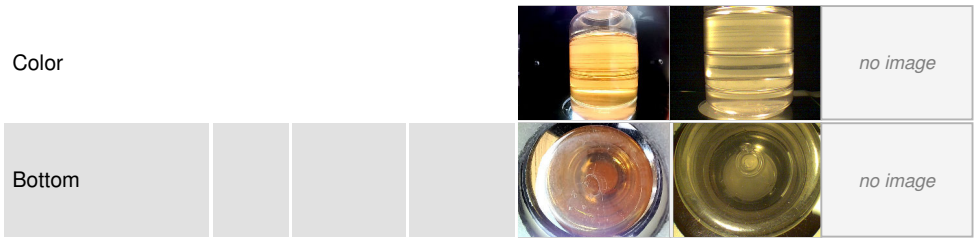
OIL ANALYSIS REPORT



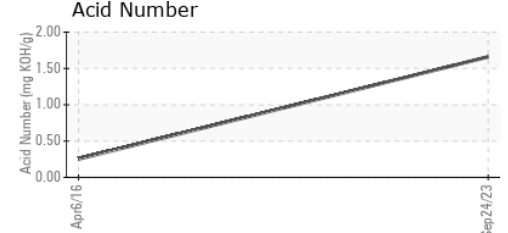
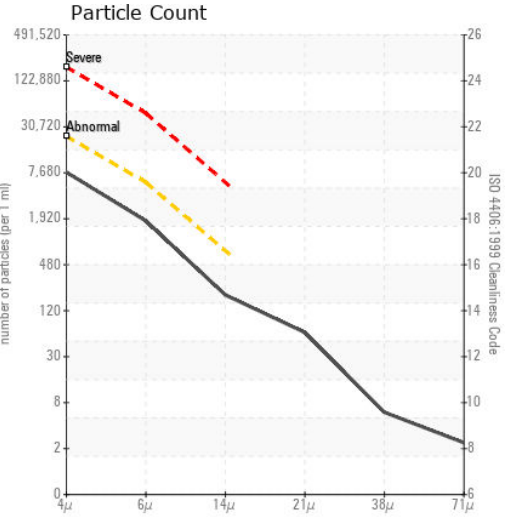
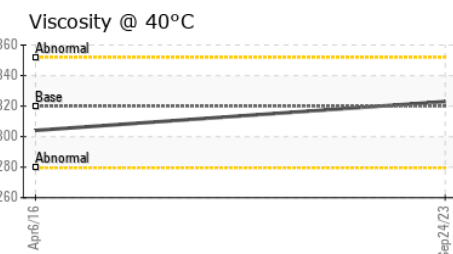
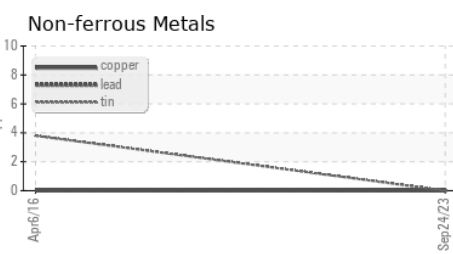
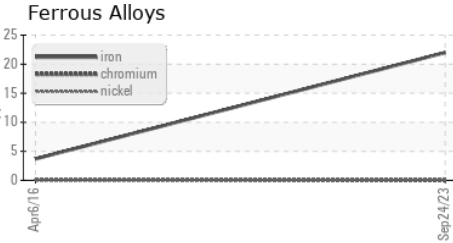
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- |
| Precipitate | scalar | *Visual | NONE | NONE | ---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

| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|---------------|------------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 320 | 323 | 304.1 | --- |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0851179 **Received** : 29 Sep 2023
Lab Number : **05964572** **Diagnosed** : 02 Oct 2023
Unique Number : 10671123 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: PrtCount)

HORMEL FOODS - AUSTIN
 1101 NORTH MAIN ST
 AUSTIN, MN
 US 55912
 Contact: RYAN LOWE
 rslowe@hormel.com
 T: (507)437-5674
 F: (507)437-9805

Certificate L2367
 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)