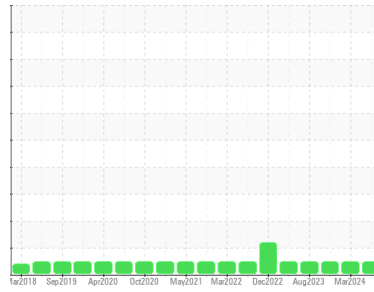




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
FRICK 13
 Component
Refrigeration Compressor
 Fluid
USPI 1009-68 SC (--- 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 oil. The amount and size of particulates present in the system are 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 | | USP0012396 | USP0007974 | USP0004392 |
| Sample Date | Client Info | | 09 Jul 2024 | 25 Mar 2024 | 12 Dec 2023 |
| Machine Age | hrs | Client Info | 61745 | 59554 | 57813 |
| Oil Age | hrs | Client Info | 39196 | 36965 | 35224 |
| Oil Changed | Client Info | | N/A | N/A | N/A |
| Sample Status | | | NORMAL | NORMAL | NORMAL |

WEAR METALS

| | method | limit/base | current | history1 | history2 |
|----------|--------|----------------|--------------|----------|----------|
| Iron | ppm | ASTM D5185m >8 | <1 | 0 | 0 |
| Chromium | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | <1 | 1 | 0 |
| Titanium | ppm | ASTM D5185m | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m >3 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m >2 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m >8 | 0 | 0 | 0 |
| Tin | ppm | ASTM D5185m >4 | 0 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| | method | limit/base | current | history1 | history2 |
|------------|--------|----------------|-----------|----------|----------|
| Boron | ppm | ASTM D5185m | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | 1 | <1 | 0 |
| Magnesium | ppm | ASTM D5185m | 1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | 1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | 0 | 0 | 0 |
| Zinc | ppm | ASTM D5185m | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m 50 | 42 | 44 | 0 |

CONTAMINANTS

| | method | limit/base | current | history1 | history2 |
|-----------|--------|------------------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m >15 | <1 | 0 | <1 |
| Sodium | ppm | ASTM D5185m | 3 | 1 | 0 |
| Potassium | ppm | ASTM D5185m >20 | 2 | 2 | <1 |
| Water | % | ASTM D6304 >0.01 | 0.003 | 0.006 | 0.004 |
| ppm Water | ppm | ASTM D6304 >100 | 35 | 60 | 43 |

FLUID CLEANLINESS

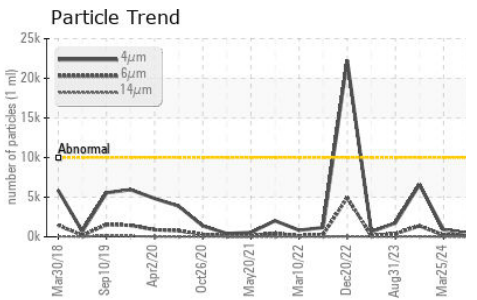
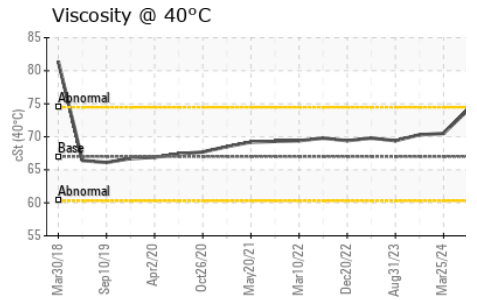
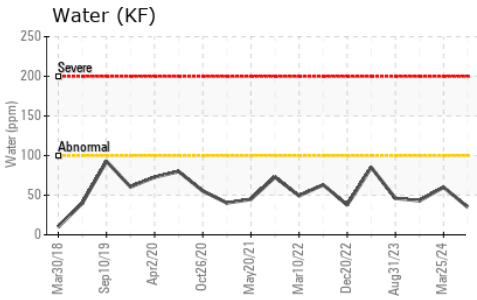
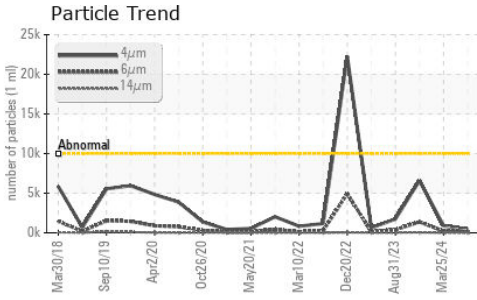
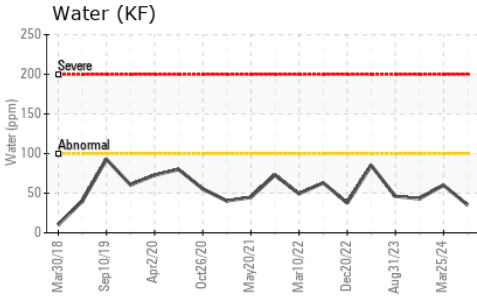
| | method | limit/base | current | history1 | history2 |
|-----------------|--------------|------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 | >10000 | 451 | 892 | 6583 |
| Particles >6µm | ASTM D7647 | >2500 | 117 | 216 | 1387 |
| Particles >14µm | ASTM D7647 | >320 | 7 | 9 | 58 |
| Particles >21µm | ASTM D7647 | >80 | 1 | 1 | 14 |
| Particles >38µm | ASTM D7647 | >20 | 0 | 0 | 1 |
| Particles >71µm | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) | >20/18/15 | 16/14/10 | 17/15/10 | 20/18/13 |

FLUID DEGRADATION

| | method | limit/base | current | history1 | history2 |
|------------------|----------|-----------------|--------------|----------|----------|
| Acid Number (AN) | mg KOH/g | ASTM D974 0.005 | 0.015 | 0.014 | 0.013 |



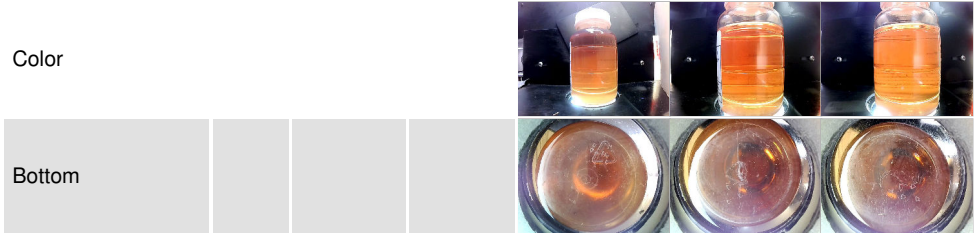
OIL ANALYSIS REPORT



| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| 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 | >0.01 | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG |

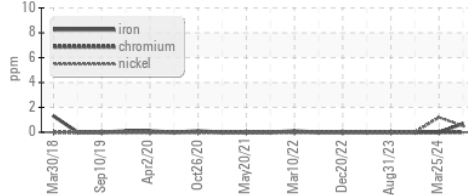
| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|--------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 67 | 74.0 | 70.5 | 70.3 |

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

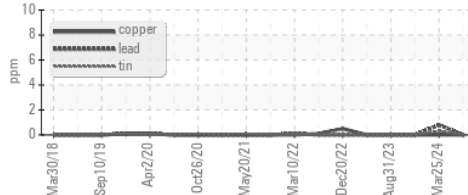


GRAPHS

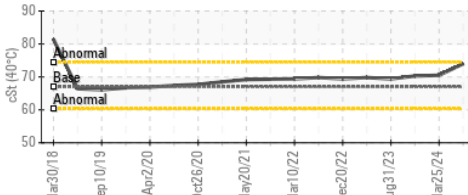
Ferrous Alloys



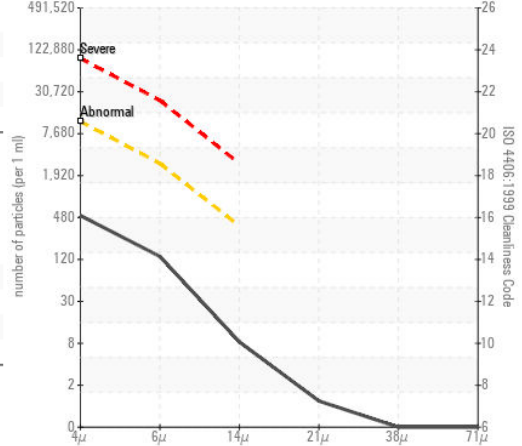
Non-ferrous Metals



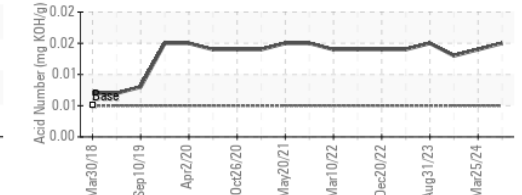
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : USP0012396
 Lab Number : 06238474
 Unique Number : 11127308
 Test Package : IND 2

Received : 16 Jul 2024
 Tested : 18 Jul 2024
 Diagnosed : 18 Jul 2024 - Doug Bogart

CARGIL INC
 3130 GHOLSON RD
 WACO, TX
 US 76705
 Contact: Service Manager

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)

T:
F: