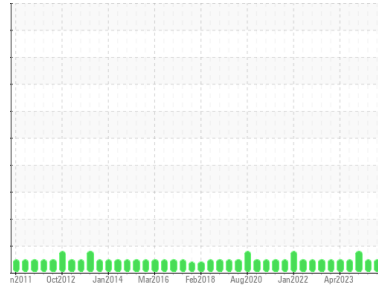




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MYCOM TYSHUTD 3D (S/N 3211706)
 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 | USP0011350 | USP0007123 | USP0003387 |
| Sample Date | Client Info | 01 May 2024 | 12 Feb 2024 | 01 Nov 2023 |
| Machine Age | hrs Client Info | 0 | 0 | 0 |
| Oil Age | hrs Client Info | 0 | 0 | 0 |
| Oil Changed | Client Info | N/A | N/A | N/A |
| Sample Status | | NORMAL | NORMAL | ATTENTION |

WEAR METALS

| method | limit/base | current | history1 | history2 |
|--------------|----------------|----------|----------|----------|
| Iron ppm | ASTM D5185m >8 | 0 | 0 | 0 |
| Chromium ppm | ASTM D5185m >2 | 0 | 0 | <1 |
| Nickel ppm | ASTM D5185m | 0 | 0 | <1 |
| Titanium ppm | ASTM D5185m | 0 | 0 | 0 |
| Silver ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Aluminum ppm | ASTM D5185m >3 | 0 | 0 | 0 |
| Lead ppm | ASTM D5185m >2 | 0 | 0 | 0 |
| Copper ppm | ASTM D5185m >8 | 0 | 0 | <1 |
| Tin ppm | ASTM D5185m >4 | 0 | <1 | 0 |
| Vanadium ppm | ASTM D5185m | 0 | 0 | <1 |
| 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 | <1 | 0 | 0 |
| Molybdenum ppm | ASTM D5185m | 0 | 0 | 0 |
| Manganese ppm | ASTM D5185m | 0 | 0 | 0 |
| Magnesium ppm | ASTM D5185m | <1 | 0 | 0 |
| Calcium ppm | ASTM D5185m | 0 | 0 | <1 |
| Phosphorus ppm | ASTM D5185m | 0 | 0 | 0 |
| Zinc ppm | ASTM D5185m | 0 | 0 | 0 |
| Sulfur ppm | ASTM D5185m 50 | 1 | 0 | 0 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 |
|---------------|------------------|--------------|----------|----------|
| Silicon ppm | ASTM D5185m >15 | <1 | 1 | <1 |
| Sodium ppm | ASTM D5185m | <1 | 0 | 0 |
| Potassium ppm | ASTM D5185m >20 | 0 | 0 | <1 |
| Water % | ASTM D6304 >0.01 | 0.003 | 0.002 | 0.001 |
| ppm Water | ASTM D6304 >100 | 29 | 22 | 14.1 |

FLUID CLEANLINESS

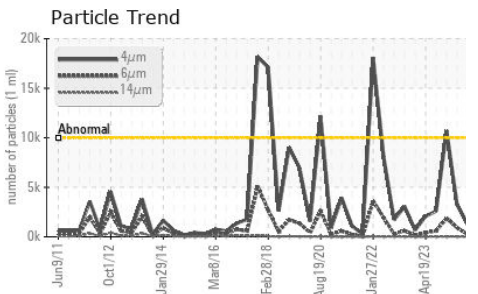
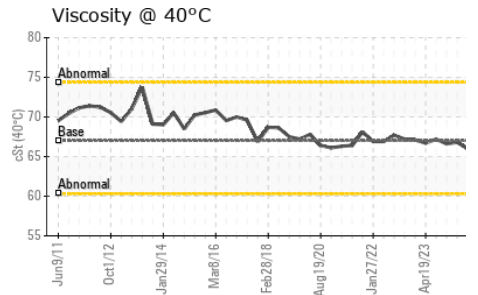
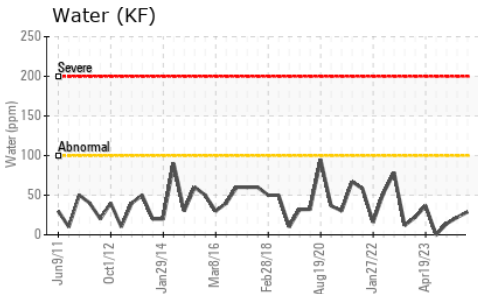
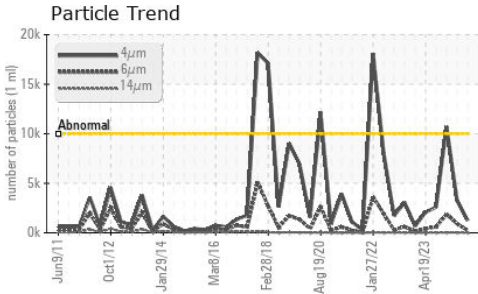
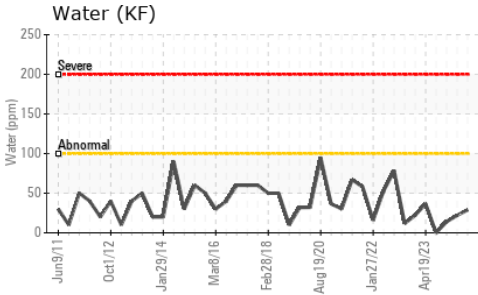
| method | limit/base | current | history1 | history2 |
|-----------------|------------------------|-----------------|----------|----------|
| Particles >4µm | ASTM D7647 >10000 | 1257 | 3250 | 10710 |
| Particles >6µm | ASTM D7647 >2500 | 228 | 926 | 1880 |
| Particles >14µm | ASTM D7647 >320 | 6 | 32 | 33 |
| Particles >21µm | ASTM D7647 >80 | 1 | 7 | 5 |
| Particles >38µm | ASTM D7647 >20 | 0 | 1 | 0 |
| Particles >71µm | ASTM D7647 >4 | 0 | 0 | 0 |
| Oil Cleanliness | ISO 4406 (c) >20/18/15 | 17/15/10 | 19/17/12 | 21/18/12 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 |
|---------------------------|-----------------|--------------|----------|----------|
| Acid Number (AN) mg KOH/g | ASTM D974 0.005 | 0.014 | 0.029 | 0.028 |



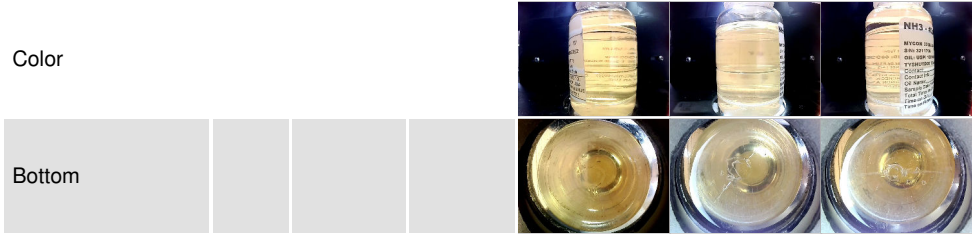
OIL ANALYSIS REPORT



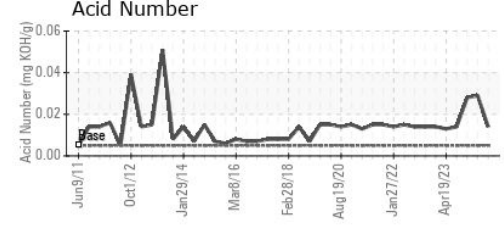
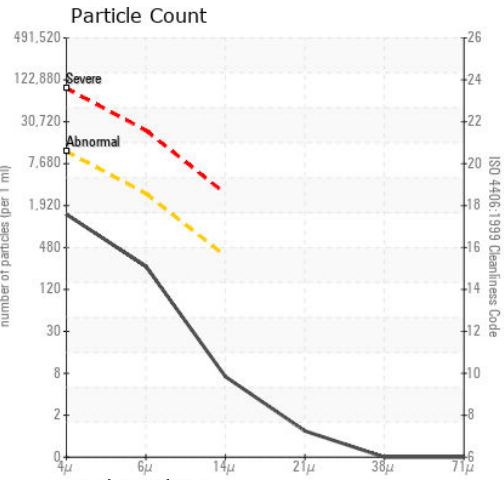
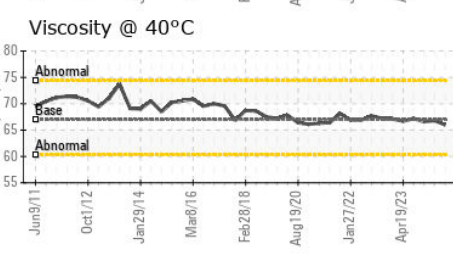
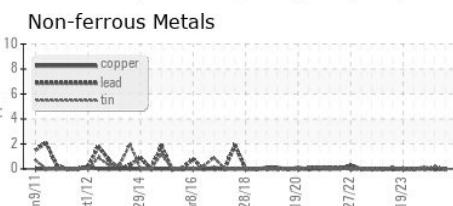
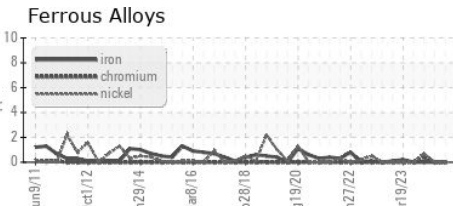
| VISUAL | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | 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 | 66.0 | 66.8 | 66.6 |

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



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0011350
Lab Number : 06175551
Unique Number : 11021604
Test Package : IND 2
Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 13 May 2024 - Doug Bogart

TYSON DSKL - HUTCHINSON - USP
 9 N WASHINGTON
 HUTCHINSON, KS
 US
 Contact: SCOTT OWEN

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)