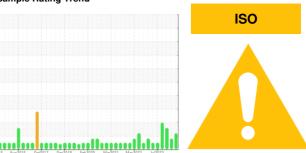


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FES TYSTEWCB 2 (S/N 01087014)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

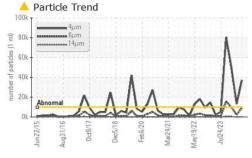
Fluid Condition

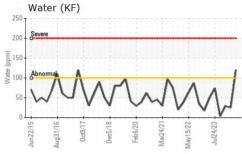
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

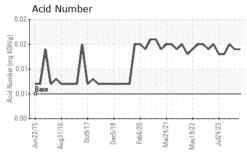
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|------------------|----------|--------------|------------|-----------------|-------------|-----------------|
| Sample Number | | Client Info | | USP0013222 | USP0008119 | USP0004635 |
| Sample Date | | Client Info | | 17 Jun 2024 | 02 Apr 2024 | 03 Jan 2024 |
| 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 | | | | ABNORMAL | ATTENTION | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >8 | 0 | 0 | <1 |
| Chromium | ppm | ASTM D5185m | >2 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >3 | <1 | 0 | 1 |
| Lead | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >8 | <1 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >4 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 1 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Phosphorus | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 50 | 12 | 8 | 0 |
| CONTAMINANTS | 3 | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Sodium | ppm | ASTM D5185m | | 2 | 1 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| Water | % | ASTM D6304 | >0.01 | 0.012 | 0.002 | 0.003 |
| ppm Water | ppm | ASTM D6304 | >100 | 120 | 25 | 29 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4μm | | ASTM D7647 | >10000 | ▲ 37088 | 13281 | ▲ 50047 |
| Particles >6µm | | ASTM D7647 | >2500 | <u> </u> | 2258 | △ 9701 |
| Particles >14μm | | ASTM D7647 | >320 | 241 | 38 | △ 350 |
| Particles >21µm | | ASTM D7647 | >80 | 30 | 5 | 72 |
| Particles >38μm | | ASTM D7647 | >20 | 2 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >20/18/15 | <u>22/20/15</u> | 21/18/12 | 23/20/16 |
| FLUID DEGRADA | ATION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974 | 0.005 | 0.014 | 0.014 | 0.015 |

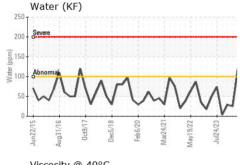


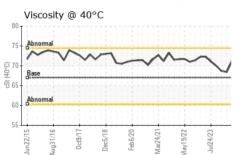
OIL ANALYSIS REPORT







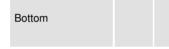




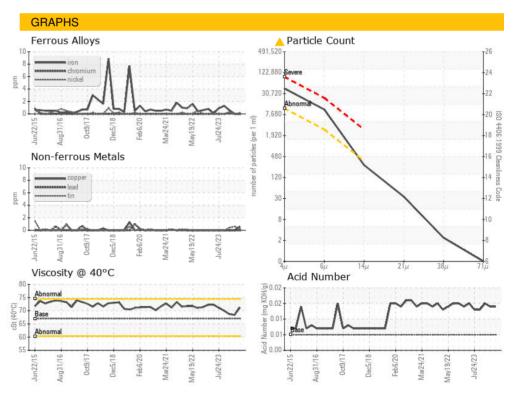
| VISUAL | | method | limit/base | current | history1 | history2 |
|-------------------------|--------|---------|------------|---------|----------|----------|
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | LIGHT | NONE | LIGHT |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.01 | NEG | NEG | NEG |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |
| | | | | | | |
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
| | _ | | | | | |

| VISC @ 40°C | CSI | A51W D445 | 07 | / 1.2 | 00.4 | 00.7 |
|---------------|-----|-----------|------------|---------|----------|----------|
| SAMPLE IMAGES | 3 | method | limit/base | current | history1 | history2 |

Color











Laboratory Sample No.

: USP0013222 Lab Number : 06214092

Unique Number : 11086956

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 18 Jun 2024

Tested : 20 Jun 2024 Diagnosed : 21 Jun 2024 - Jonathan Hester

TYSON T.E.W.-COUNCIL BLUFFS-USP

COUNCIL BLUFFS, IA US Contact: RANDY CHARLTON

Test Package : IND 2 Certificate 12367 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)

Report Id: TEWCOU [WUSCAR] 06214092 (Generated: 06/23/2024 04:46:06) Rev: 1

Contact/Location: RANDY CHARLTON - TEWCOU

T:

F: