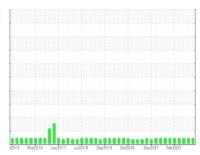


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

FES TYSBER B-11

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

Recommendation

Resample at the next service interval to monitor.

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.

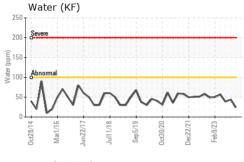
Fluid Condition

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

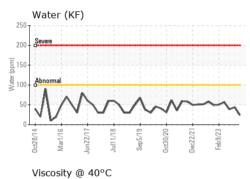
| | | t2014 Mar20 | 16 Jun2017 Jul2018 | Sep2019 Oct2020 Dec2021 F | eb2023 | |
|------------------|----------|--------------|--------------------|---------------------------|-------------|-------------|
| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
| Sample Number | | Client Info | | USP0006407 | USP0005749 | USP0003012 |
| Sample Date | | Client Info | | 10 Apr 2024 | 17 Jan 2024 | 26 Oct 2023 |
| Machine Age | hrs | Client Info | | 94364 | 95684 | 92224 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| 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 | 1 | <1 |
| Chromium | ppm | ASTM D5185m | >2 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >3 | 1 | 0 | <1 |
| Lead | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >8 | <1 | <1 | <1 |
| Tin | ppm | ASTM D5185m | >4 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Zinc | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | 50 | 0 | 0 | 0 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >15 | 3 | 2 | 3 |
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | 1 |
| Water | % | ASTM D6304 | >0.01 | 0.002 | 0.004 | 0.003 |
| ppm Water | ppm | ASTM D6304 | >100 | 24 | 44 | 38.7 |
| FLUID CLEANLIN | ESS | method | limit/base | current | history1 | history2 |
| Particles >4µm | | ASTM D7647 | | 377 | 903 | 974 |
| Particles >6µm | | ASTM D7647 | >2500 | 133 | 278 | 346 |
| Particles >14μm | | ASTM D7647 | >320 | 13 | 28 | 24 |
| Particles >21µm | | ASTM D7647 | >80 | 4 | 7 | 5 |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 0 | 1 |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >/18/15 | 16/14/11 | 17/15/12 | 17/16/12 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Acid Number (AN) | mg KOH/g | ASTM D974 | 0.005 | 0.028 | 0.014 | 0.016 |

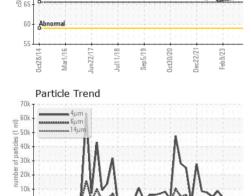


OIL ANALYSIS REPORT



| Par | ticle T | rend | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|---------|---------|--------|---------|-------|
| 60k | 4µ | m II | | | | | | |
| 50k | 14, | um . | | | 1 | | | |
| Sapared of | | M | | | Λ | | | |
| 20k - | | TAV | 1 | | 1 | 11 | | |
| TUK | | W | 1 | 1 | N | T | ~ | |
| 90 Dct28/14 | Mar1/16 | 2/17 | 1/18 | Sep5/19 | 0/20 | 12/21 | Feb9/23 | None. |
| Oct2 | Mar | Jun2 | Jul | Sep | 0ct30/2 | Dec22/ | Feb | |





| VISUAL | | method | | | | 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 | NONE | NONE | NONE |
| 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 PROPERT | TES | method | | | | history2 |
| Vice @ 40°C | o\$+ | ACTM DAAE | GE G | 67.4 | 67.0 | 66.4 |

| Visc @ 40°C | cSt | ASTM D445 | 65.6 | 67.4 | 67.0 | 66.4 |
|-------------|-----|-----------|------|------|------|------|

SAMPLE IMAGES Color





| Ferrous A | lloys | | | | | Par | ticle Cou | nt | | | | |
|---------------------|----------------------|----------|----------|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|---------|----------|-----------|---------|
| 7222 | | | | | | 491,520 | | | | | | T |
| enamental chro | | | | | | 122,880 | | | | | | |
| W~ | The | | 71 | 1 | ~ | 30,720 | | | | | | |
| 7\ ² ~ | | | <u>v</u> | 77 | √ <u>~</u> | 7,680- | 1 | | | | | + |
| Oct28/14 Mar1/16 | Jun22/17 Jul11/18 | Sep5/19. | Oct30/20 | Dec22/21 | Feb9/23 | 1,920- | 1 | ` | | | | - |
| Non-ferro | | ls | | | | 1,920 480 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 120 - 12 | | | | | | |
| copi | per] | | | | | 120 - | 1 | | | | | + |
| tin | | | | | | ā 30+ | | / | | | | + |
| lan | 7.20 | | | | | 8 Shreen | nal | | \ | | | - |
| Oct28/14 Mar1/16 | Jun22/17 Jul11/18 | Sep5/19 | Oct30/20 | Dec22/21- | Feb9/23 | 2- | | | | / | | |
| | 100 | S | Oct | Dec | <u> </u> | 04/1 | 6 <u>ju</u> | 14μ | 21μ | | 38μ | 71, |
| Viscosity (| @ 40°C | | | | | | d Numbe | r | | | | |
| Abnonval | ~~ | | | | | XOH/g | | | | | | |
| Base | | | | | 1 | 0.00 Acid Number (mg XOH/g) | ١. | | | - | ~ | ~ |
| Abnormal | | | | | | Base | VL | ~~~ | 7 | | | ***** |
| Oct28/14 +- | Jun22/17 - | Sep5/19 | 0ct30/20 | Dec22/21- | Feb9/23 + | Acic 00:28/14 | Mar1/16 + | Jul11/18 | Sep5/19 | 0ct30/20 | Dec22/21- | Feb9/23 |
| 00 E | 11 | 52 | 30 | 553 | 99 | 228 | arl arl | Ξ | 50 | 130 | 73 | 69 |





Certificate 12367

Laboratory Sample No. Lab Number : 06154436 Unique Number : 10989859 Test Package : IND 2

: USP0006407

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 19 Apr 2024

Tested : 22 Apr 2024 Diagnosed : 22 Apr 2024 - Doug Bogart **TYSON-BERRYVILLE-USP**

110 WEST FREEMAN BERRYVILLE, AR US 72616

Contact: MIKE CISCO

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) F: (870)423-1602

Report Id: TYSBER01 [WUSCAR] 06154436 (Generated: 04/23/2024 13:54:39) Rev: 1

Contact/Location: MIKE CISCO - TYSBER01

T: (870)423-5556