

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL

# FES C 18 (S/N 5112011)

Refrigeration Compressor Fluid USPI ALT-68 SC (205 GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

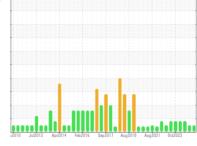
All component wear rates are normal.

#### 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 USP0001867 USP243723 USP248760 Sample Number **Client Info** Sample Date Client Info 26 Sep 2023 16 Jul 2023 13 Apr 2023 0 0 0 Machine Age hrs **Client Info** Oil Age hrs Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A NORMAL Sample Status NORMAL ABNORMAL WEAR METALS ASTM D5185m >8 0 0 0 Iron ppm Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m <1 0 0 Titanium ASTM D5185m <1 0 0 ppm 0 Silver ppm ASTM D5185m >2 0 0 Aluminum ppm ASTM D5185m >3 0 0 <1 Lead ASTM D5185m >2 0 0 0 ppm 0 Copper ASTM D5185m >8 <1 0 ppm Tin ppm ASTM D5185m >4 <1 0 0 Vanadium ASTM D5185m <1 0 0 ppm Cadmium ppm ASTM D5185m <1 0 0 0 0 0 Boron ppm ASTM D5185m Barium ppm ASTM D5185m 0 0 0 0 0 Molybdenum 0 ppm ASTM D5185m 0 Manganese ppm ASTM D5185m <1 <1 0 0 Magnesium ASTM D5185m ppm <1 0 0 0 Calcium ppm ASTM D5185m 0 Phosphorus ppm ASTM D5185m 0 0 Zinc ASTM D5185m 0 0 0 ppm 50 27 0 Sulfur ASTM D5185m ppm 16 CONTAMINANTS Silicon ppm ASTM D5185m >15 <1 <1 <1 0 0 Sodium ppm ASTM D5185m <1 Potassium ASTM D5185m >20 1 0 ppm <1 0.002 0.006 0.005 Water % ASTM D6304 >0.01 ASTM D6304 21.7 63.6 ppm Water ppm >100 50.1 FLUID CLEANLINESS 7545 Particles >4µm ASTM D7647 11168 24507 1246 6567 Particles >6µm ASTM D7647 >2500 1133 Particles >14µm ASTM D7647 >320 27 38 112 Particles >21µm ASTM D7647 >80 9 8 7 Particles >38µm ASTM D7647 >20 4 1 1 Particles >71µm ASTM D7647 0 0 >4 1

Acid Number (AN)

FLUID DEGRADATION

**Oil Cleanliness** 

mg KOH/g ASTM D974 0.005

ISO 4406 (c)

>--/18/15

Contact/Location: SERVICE MANAGER - TYSFORMS

20/17/12

0.014

21/17/12

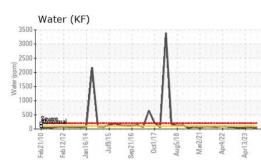
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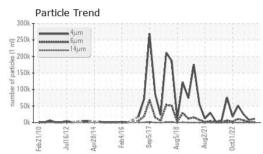
22/20/14

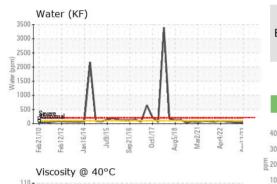
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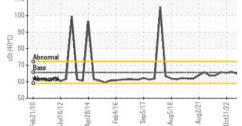


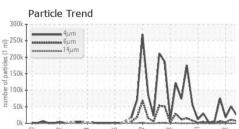
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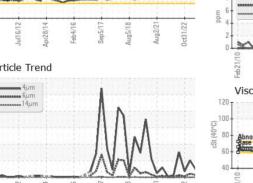












Laboratory

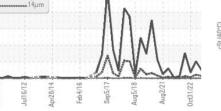
Sample No.

Lab Number

Unique Number

Test Package

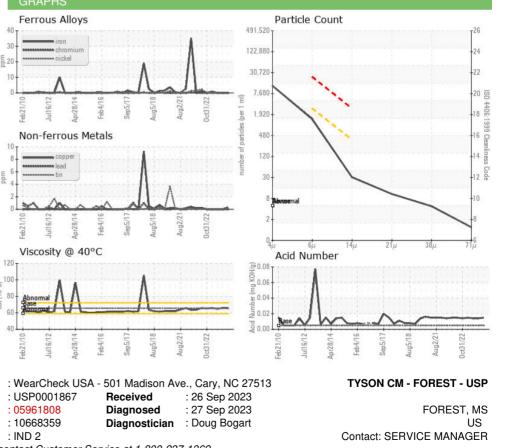






Bottom





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)

Certificate L2367

Contact/Location: SERVICE MANAGER - TYSFORMS

T:

F: