

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL

FES TYSHOUP RC-13 (S/N T0325)

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

USPI ALT-00 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 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.





Iron ppm ASTM D5185m >8 0 0 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m 0 0 <1 0 Titanium ppm ASTM D5185m 0 <1 0 <1 Titanium ppm ASTM D5185m >2 0 0 <1 0 Silver ppm ASTM D5185m >2 0 0 0 0 Aluminum ppm ASTM D5185m >2 0 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 0 Copper ppm ASTM D5185m >8 0 0 0 0 Vanadium ppm ASTM D5185m >4 0 0 0 0 Cadmium ppm ASTM D5185m 0 0 0 0 0 Boron	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 N/A Sample Status Image Image NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history1 Iron ppm ASTM D5185m >8 0 0 0 Chromium ppm ASTM D5185m >2 0 0 0 Nickel ppm ASTM D5185m >2 0 0 0 Silver ppm ASTM D5185m >2 0 0 0 Lead ppm ASTM D5185m >2 0 0 0 Cadminum ppm ASTM D5185m >4 0 0 0 Vanadium ppm ASTM D5185m 0 0 0 0 Boron <	AL
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Phosphorus ppm ASTM D5185m 0 0 0 Zinc ppm ASTM D5185m 0 0 0 0	
Zinc ppm ASTM D5185m 0 0 0	
Sulfur ppm ASTM D5185m 50 0 0 3	
CONTAMINANTS method limit/base current history1 hist	tory2
Silicon ppm ASTM D5185m >15 0 <1 <1	
Sodium ppm ASTM D5185m 0 <1	
Potassium ppm ASTM D5185m >20 0 3 2	
Water % ASTM D6304 >0.01 0.004 0.006 0.008	3
ppm Water ppm ASTM D6304 >100 45.3 65.3 82.3	0
FLUID CLEANLINESS method limit/base current history1 hist	tory2
Particles >4μm ASTM D7647 >10000 5827 9706 2809)
Particles >6μm ASTM D7647 >2500 1039 2249 828	
Particles >14μm ASTM D7647 >320 23 67 29	
Particles >21µm ASTM D7647 >80 6 9 5	
Particles >38µm ASTM D7647 >20 0 0 1	
Particles >71µm ASTM D7647 >4 0 0 0	
Oil Cleanliness ISO 4406 (c) >20/18/15 20/17/12 20/18/13 19/17	
FLUID DEGRADATION method limit/base current history1 hist	7/12
Acid Number (AN) mg KOH/g ASTM D974 0.005 0.014 0.014 0.015	7/12 tory2



OIL ANALYSIS REPORT

scalar

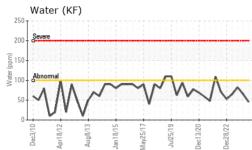
scalar

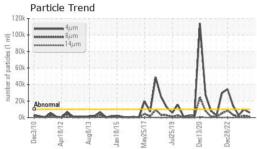
scalar

White Metal

Yellow Metal

Precipitate







*Visual

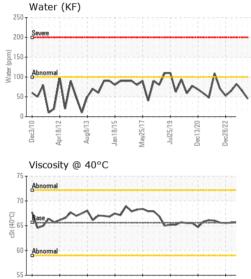
*Visual

*Visual

NONE

NONE

NONE



an18/1

Jec3/1

120

60

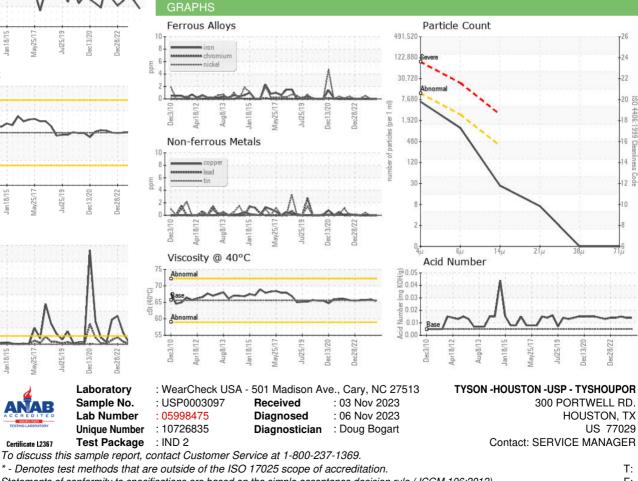
40

20

Abnorma

cles (1 80

Particle Trend



Contact/Location: SERVICE MANAGER - TYSHOU

NONE

NONE

NONE

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

65.7

NONE

NONE

NONE