

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL

#### Machine Ic FRICK TYSCEN HS-2 (S/N 794TFFMPTIAAOB) Component

**Refrigeration Compressor** USPI ALT-68 SC (180 GAL)

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

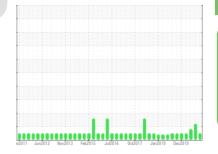
All component wear rates are normal.

#### 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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP225235	USP239749	USP207725
Sample Date		Client Info		10 Aug 2023	25 May 2023	18 May 2020
Machine Age	hrs	Client Info		10	0	96886
Oil Age	hrs	Client Info		10	0	91970
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	<1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	<1
Tin	ppm	ASTM D5185m	>4	0	0	1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
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		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	1
Sulfur	ppm	ASTM D5185m	50	0	0	15
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304		0.003	0.010	0.005
ppm Water	ppm	ASTM D6304	>100	31.4	106.0	54.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	800	▲ 31322	A 19463
Particles >6µm		ASTM D7647	>2500	226	▲ 7760	<b>4</b> 965
Particles >14µm		ASTM D7647	>320	18	254	275
Particles >21µm		ASTM D7647		6	44	63
Particles >38µm		ASTM D7647	>20	1	1	2
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/15/11	▲ 22/20/15	<b>1</b> /19/15
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.015	0.015
				<b>O</b> · · · //		

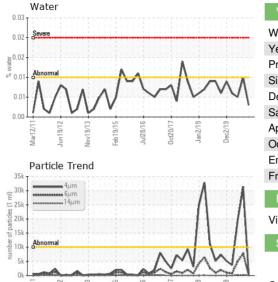
Report Id: TYSCEN01 [WUSCAR] 05927888 (Generated: 08/21/2023 12:40:07) Rev: 1

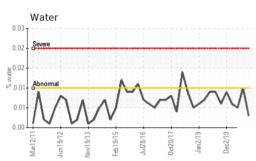
Contact/Location: PAT HART - TYSCEN01



Marl

# **OIL ANALYSIS REPORT**

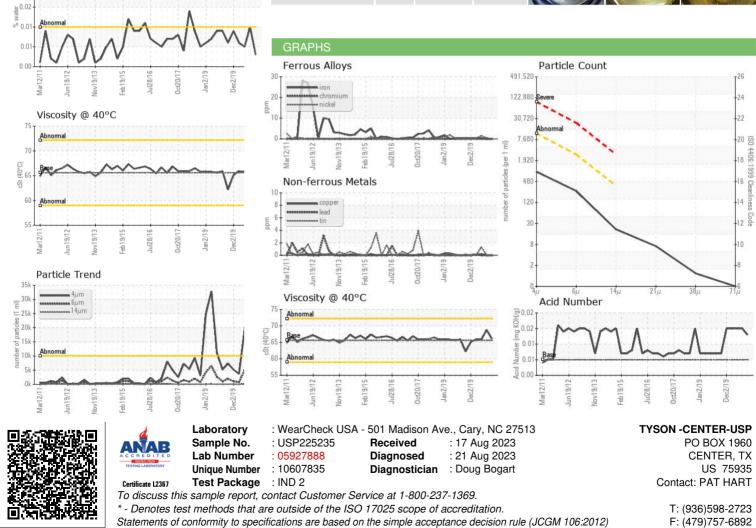




	scalar	*Visual	NONE			
Vallau Matal			NONE	NONE	NONE	NONE
Yellow Metal s	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate s	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris s	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt s	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance s	scalar	*Visual	NORML	NORML	NORML	NORML
Odor s	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water s	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water s	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIE	S	method	limit/base	current	history1	history2
Visc @ 40°C c	cSt	ASTM D445	65.6	66.1	68.8	65.8
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						WC III

Bottom

Dec2/1



Contact/Location: PAT HART - TYSCEN01