

## **OIL ANALYSIS REPORT**

#### **Sample Rating Trend**



WATER



# FES 2 (S/N 05411013)

Component

Refrigeration Compressor

**USPI HF SYN 220 (--- QTS)** 

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

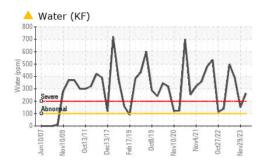
#### **Fluid Condition**

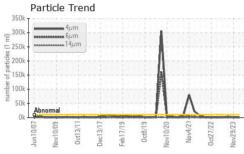
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

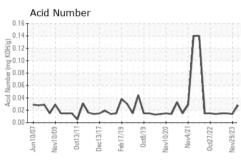
n2007 Nov2003 Ocz2011 Doc2017 Fos2013 Ocz2013 Nov2022 Nov2022 Nov2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM30105	USPM31520	USPM29435
Sample Date		Client Info		22 Feb 2024	29 Nov 2023	29 Aug 2023
Machine Age	days	Client Info		0	0	0
Oil Age	days	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	<1	1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		0	<1	0
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	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		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		1	1	0
Phosphorus	ppm	ASTM D5185m		1	1	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		9	52	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m		<1	<1	0
Water	%	ASTM D6304	>0.01	<b>△</b> 0.026	0.014	▲ 0.038
ppm Water	ppm	ASTM D6304	>100	<u>^</u> 262	150	▲ 388.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	677	1564	3229
Particles >6µm		ASTM D7647	>2500	140	344	526
Particles >14μm		ASTM D7647	>320	8	16	50
Particles >21µm		ASTM D7647	>80	2	5	18
Particles >38μm		ASTM D7647	>20	0	0	2
Particles >71μm		ASTM D7647	>4	0	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/14/10	18/16/11	19/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.028	0.014	0.015

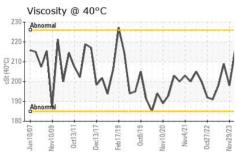


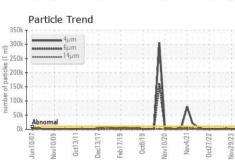
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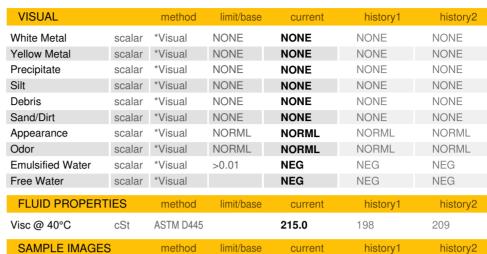






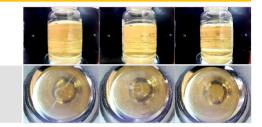


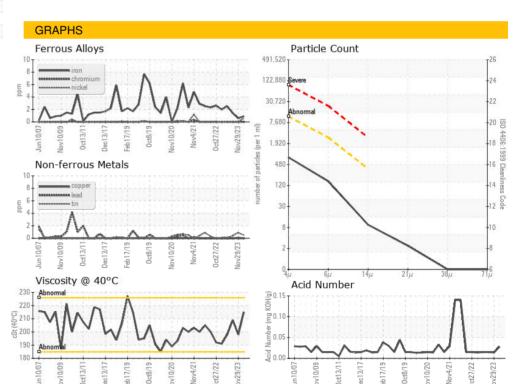




Color











Certificate L2367

Laboratory Sample No. Lab Number Unique Number: 10896710

Test Package : IND 2

: USPM30105 : 06098480

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

: 23 Feb 2024 **Tested** Diagnosed

: 28 Feb 2024

: 28 Feb 2024 - Doug Bogart

SPRINGDALE, AR US 72764 Contact: RICK DUVAL

**TYSON PP -SPRINGDALE-USP** 

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)

T: F: