

## **OIL ANALYSIS REPORT**

## Area WAS Machine To FRICK NH3 - WH5-BOOSTER 1 OK21010 (S/N S002DFEF1HAD)

Refrigeration Compressor

USPI 1009-68 SC (100 GAL)

### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

#### **Fluid Condition**

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

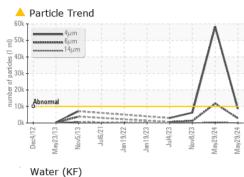
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP240466	USP242792	USP0003616
Sample Date		Client Info		29 May 2024	29 May 2024	08 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
_ead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
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	<1	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		3	2	0
o //			FO			
Sultur	ppm	ASTM D5185m	50	32	<1	0
Sulfur CONTAMINANTS		ASTM D5185m method	limit/base	32 current	<1 history1	0 history2
CONTAMINANTS			limit/base			
CONTAMINANTS Silicon	3	method	limit/base	current	history1	history2
CONTAMINANTS Silicon Sodium	ppm	method ASTM D5185m	limit/base	current <1 <1 0	history1 <1	history2 <1
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base >15 >20	current <1 <1	history1 <1 <1	history2 <1 0
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >15 >20 >0.01	current <1 <1 0	history1 <1 <1 0	history2 <1 0 0
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm % ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	limit/base >15 >20 >0.01	<pre>current &lt;1 &lt;1 0 0.004</pre>	history1 <1 <1 0 0.003	history2 <1 0 0 0.002
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm % ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	limit/base >15 >20 >0.01 >100	current <1 <1 0 0.004 41	history1 <1 <1 0 0.003 36	history2 <1 0 0 0.002 16.2
CONTAMINANTS Silicon Sodium Potassium Water opm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm % ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	limit/base >15 >20 >0.01 >100 limit/base	<1	history1         <1	history2 <1 0 0 0.002 16.2 history2 6280 1301
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm % ppm	methodASTM D5185mASTM D5185mASTM D6304ASTM D6304MethodASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000	<1	history1 <1 <1 0 0.003 36 history1 8543 ● 2883 63	history2 <1 0 0 0.002 16.2 history2 6280
Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm % ppm	Method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500	<1	history1         <1	history2 <1 0 0 0.002 16.2 history2 6280 1301
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	Method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500 >320 >80 >20	<1	history1 <1 <1 0 0.003 36 history1 8543 ● 2883 63	history2 <1 0 0 0.002 16.2 history2 6280 1301 35
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm % ppm	Method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500 >320 >80 >20	<1	history1 <1 0 0.003 36 history1 8543 2883 63 63	history2 <1 0 0.002 16.2 history2 6280 1301 35 7
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm % ppm	Method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500 >320 >80 >20	<1	history1 <1 0 0.003 36 history1 8543 2883 63 6 1	history2 <1 0 0.002 16.2 history2 6280 1301 35 7 0
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm VESS	Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	limit/base >15 >20 >0.01 >100 limit/base >10000 >2500 >320 >320 >80 >20 >4	<1	history1 <1 0 0.003 36 history1 8543 2883 63 63 6 1 0	history2           <1

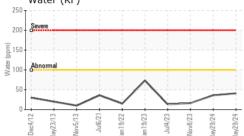
Sample Rating Trend

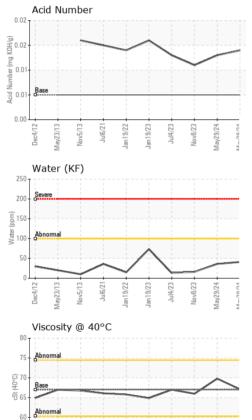
ISO



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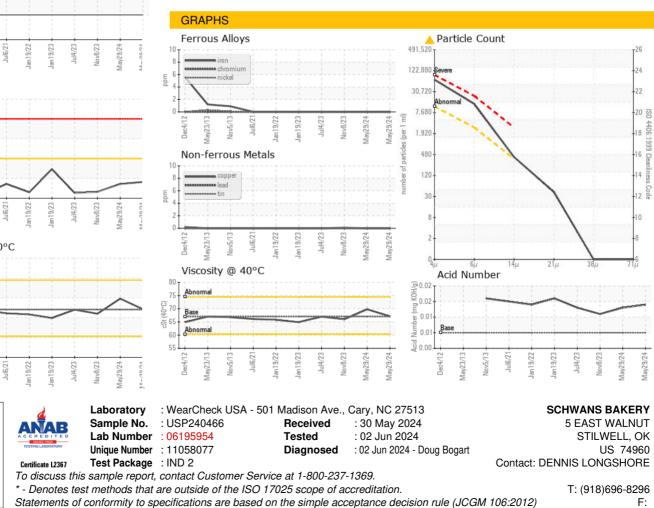


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Contact/Location: DENNIS LONGSHORE - SCHSTI

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