

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.

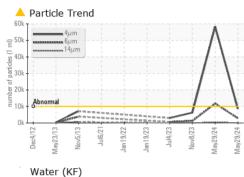
	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP240466	USP242792	USP0003616
Sample Date		Client Info		29 May 2024	29 May 2024	08 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	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 <1 <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

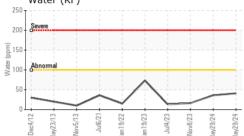
Sample Rating Trend

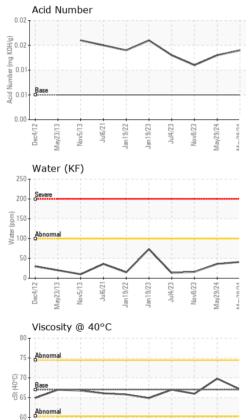
ISO



OIL ANALYSIS REPORT





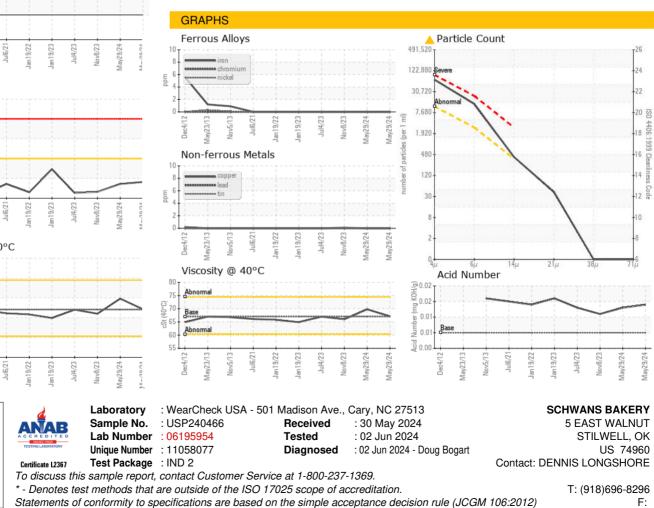


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Contact/Location: DENNIS LONGSHORE - SCHSTI

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