

OIL ANALYSIS REPORT

WEAR

RECYCLED NH3 OIL

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

DIAGNOSIS

A Recommendation

This is a baseline read-out on the submitted sample. No corrective action is recommended at this time. Barrel 1

🔺 Wear

The iron level is abnormal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

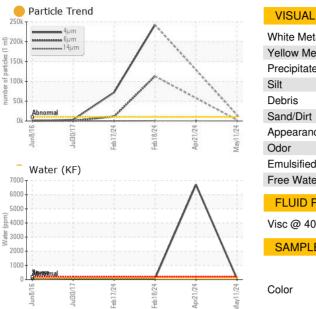
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011767	USP0006370	USP0006937
Sample Date		Client Info		11 May 2024	21 Apr 2024	18 Feb 2024
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	A 23	1 34	▲ 34
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>3	0	2	<1
Lead	ppm	ASTM D5185m	>2	0	<1	<1
Copper	ppm	ASTM D5185m	>8	<1	1	0
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m		0	<1	1
Calcium	ppm	ASTM D5185m		0	1	1
Phosphorus	ppm	ASTM D5185m		0	2	0
Zinc	ppm	ASTM D5185m		0	7	0
Sulfur	ppm	ASTM D5185m	50	0	0	3
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	5	4
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	1	2
Water	%	ASTM D6304	>0.01	0.005	▲ 0.669	0.007
ppm Water	ppm	ASTM D6304	>100	59	▲ 6699	75
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
<mark>FLUID CLEANLIN</mark> Particles >4μm	ESS	method ASTM D7647	limit/base	current	history1	history2 ▲ 242591
	ESS		>10000			
Particles >4µm	ESS	ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >320	15440		4 242591
Particles >4μm Particles >6μm	ESS	ASTM D7647 ASTM D7647	>10000 >2500 >320	15440 2612		▲ 242591▲ 112937
Particles >4μm Particles >6μm Particles >14μm	ESS	ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >320	 15440 2612 55 		 242591 112937 556
Particles >4μm Particles >6μm Particles >14μm Particles >21μm	ESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >320 >80 >20	 15440 2612 55 6 		 242591 112937 556 10
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ESS	ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >320 >80 >20	 15440 2612 55 6 0 		 242591 112937 556 10 0
Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>10000 >2500 >320 >80 >20 >4	 15440 2612 55 6 0 0 	 	 242591 112937 556 10 0 0

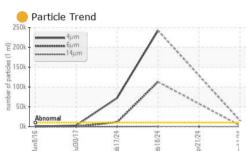
Contact/Location: LISA PIERCE - JBSOTT Page 1 of 2



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method





0.3

(B/HO)

Ê0.18

Acid Numbe 0.06

0.00

700

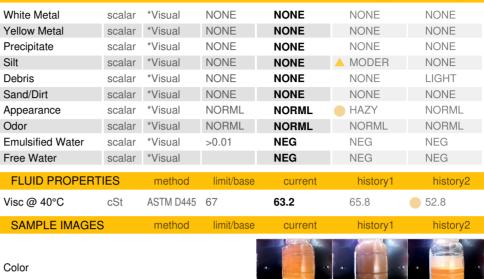
600

5000

Nater Note

200

100



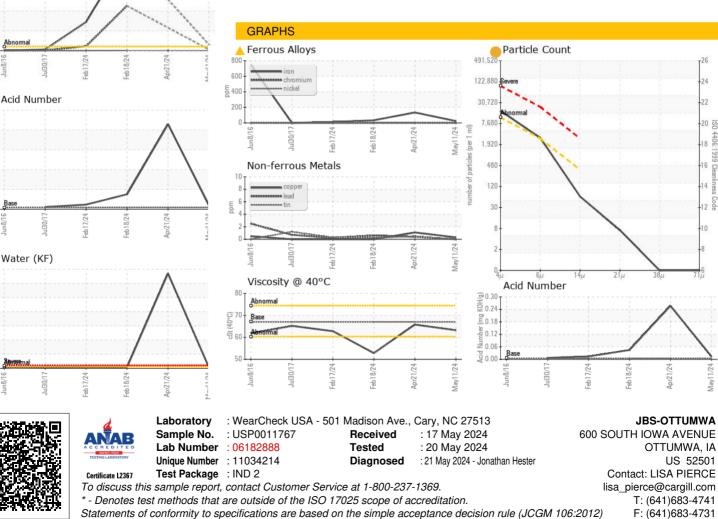
limit/base

current

history1

history2

Bottom



Report Id: JBSOTT [WUSCAR] 06182888 (Generated: 05/21/2024 16:46:51) Rev: 1

Contact/Location: LISA PIERCE - JBSOTT