

PROBLEM SUMMARY

Sample Rating Trend

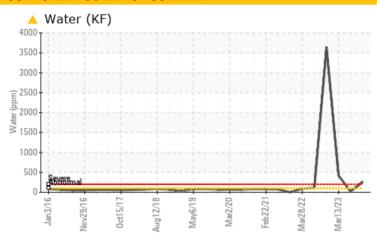
WATER

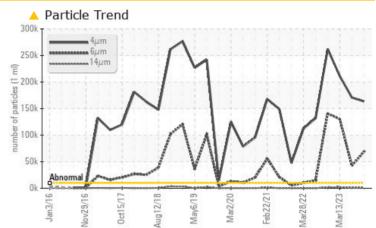
VILTER PUMP OUT (S/N 3328ARO)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Water	%	ASTM D6304	>0.01	△ 0.025	0.002	△ 0.042			
ppm Water	ppm	ASTM D6304	>100	255.5	16.3	420			
Particles >4µm		ASTM D7647	>10000	<u> </u>	<u>▲</u> 170808	<u>^</u> 211265			
Particles >6µm		ASTM D7647	>2500	68749	42347	▲ 130367			
Particles >14µm		ASTM D7647	>320	1443	<u>^</u> 775	<u>^</u> 2217			
Particles >21µm		ASTM D7647	>80	125	<u> </u>	<u> </u>			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	25/23/18	2 5/23/17	25/24/18			

Customer Id: TYSJAC Sample No.: USP0001825 Lab Number: 05963626 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

HISTORICAL DIAGNOSIS

19 Jun 2023 Diag: Doug Bogart

ISO



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.



13 Mar 2023 Diag: Doug Bogart

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

17 Nov 2022 Diag: Doug Bogart

WATER



We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Appearance is hazy. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend

WATER

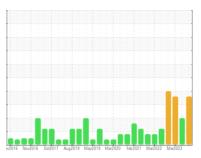
Machine Id

VILTER PUMP OUT (S/N 3328ARO)

Componen

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)





Recommendation

We advise that you perform a filter service and use off-line filtration to improve the cleanliness of the system fluid. 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. Appearance is hazy. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0001825	USP250143	USP249045
Sample Date		Client Info		27 Sep 2023	19 Jun 2023	13 Mar 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	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	8	3	16
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	<1	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<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	<1
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	<1	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.025	0.002	△ 0.042
ppm Water	ppm	ASTM D6304	>100	255.5	16.3	420
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	<u> </u>	<u></u> 170808	<u>^</u> 211265
Particles >6µm		ASTM D7647	>2500	68749	42347	<u>▲</u> 130367
Particles >14μm		ASTM D7647	>320	<u> </u>	▲ 775	<u>2217</u>
Particles >21µm		ASTM D7647	>80	<u> </u>	<u></u> 100	△ 116
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>\$\text{\scale}\$ 25/23/18</u>	<u>\$\text{25}/23/17\$</u>	2 5/24/18
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.016	0.014	0.013



OIL ANALYSIS REPORT



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)

Certificate L2367

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