

## **PROBLEM SUMMARY**

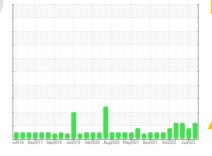
## Sample Rating Trend

# ISO

VILTER TYSOMA 9 VILTER (S/N TDSH193L3129D)

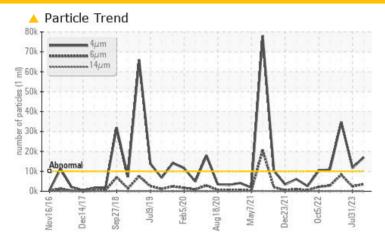
**Refrigeration Compressor** 

USPI 1009-68 SC (--- GAL)





## **COMPONENT CONDITION SUMMARY**



## RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ATTENTION	ATTENTION	ABNORMAL				
Particles >4µm	ASTM D7647	>10000	<b>17004</b>	<u>▲</u> 11732	<b>△</b> 34699				
Particles >6µm	ASTM D7647	>2500	<b>3563</b>	2417	<u>▲</u> 8276				
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>21/19/14</b>	<u>\</u> 21/18/12	<b>22/20/14</b>				

Customer Id: TYSOMA Sample No.: USP0003272 Lab Number: 05999907 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**

There are no recommended actions for this sample.

## HISTORICAL DIAGNOSIS

## 31 Jul 2023 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 27 Apr 2023 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 20 Jan 2023 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

## Sample Rating Trend



## VILTER TYSOMA 9 VILTER (S/N TDSH193L3129D)

**Refrigeration Compressor** 

USPI 1009-68 SC (--- GAL)

## **DIAGNOSIS**

#### Recommendation

Resample at the next service interval to monitor.

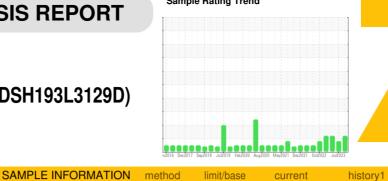
All component wear rates are normal.

## 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 suitable for further service.



Sample Number		Client Info		USP0003272	USP0000745	USP248328
Sample Date		Client Info		30 Oct 2023	31 Jul 2023	27 Apr 2023
Machine Age	hrs	Client Info		80363	76743	76834
Oil Age	hrs	Client Info		21143	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	<1	<1
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	<1
Copper	ppm	ASTM D5185m	>8	0	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
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	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		<1	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	12	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	<1
Sodium	ppm	ASTM D5185m		<1	0	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Water	%	ASTM D6304	>0.01	0.003	0.001	0.004
ppm Water	ppm	ASTM D6304	>100	38.3	11.7	47.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	<b>17004</b>	<u>▲</u> 11732	▲ 34699
Particles >6µm		ASTM D7647	>2500	<u></u> 4 3563	2417	<u>▲</u> 8276
Particles >14μm		ASTM D7647	>320	85	27	98
Particles >21µm		ASTM D7647	>80	11	4	12
Particles >38μm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>	<u>\$\text{\Delta}\$ 21/18/12</u>	<u>22/20/14</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.015	0.03



## **OIL ANALYSIS REPORT**







Certificate L2367

Lab Number **Unique Number** Test Package

: 05999907 : 10728267 : IND 2

: 07 Nov 2023 Diagnosed

Diagnostician : Doug Bogart OMAHA, NE US 68137

Contact: BOBBY WILLIAMS

Contact/Location: BOBBY WILLIAMS - TYSOMA

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)

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