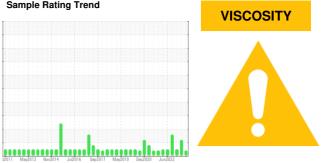


# **PROBLEM SUMMARY**

Sample Rating Trend

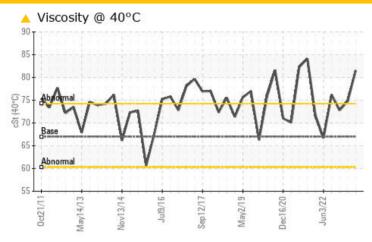


# VILTER TYSMAD 02 VILT (S/N 63276)

**Refrigeration Compressor** 

USPI 1009-68 SC (--- GAL)

#### **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	NORMAL		
Visc @ 40°C	cSt	ASTM D445	67	<u>A</u> 81.54	74.8	72.8		

**Customer Id: TYSMAD** Sample No.: USP0003705 Lab Number: 06008373 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 Fluid			?	We recommend that you drain the oil from the component if this has not already been done.

#### HISTORICAL DIAGNOSIS

#### 31 Jul 2023 Diag: Doug Bogart





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 Feb 2023 Diag: Doug Bogart

#### NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

# view report

#### 20 Oct 2022 Diag: Doug Bogart

150



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. An increase in the viscosity is noted. Confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

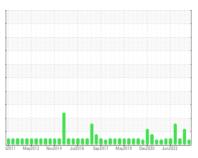
#### Sample Rating Trend



# VILTER TYSMAD 02 VILT (S/N 63276)

**Refrigeration Compressor** 

USPI 1009-68 SC (--- GAL)





### **DIAGNOSIS**

#### Recommendation

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid.

	2011 May2013 Nov2014 Ju02016 Sap2017 May2019 Dac2020 Jun2022						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		USP0003705	USP0000840	USP246282	
Sample Date		Client Info		14 Nov 2023	31 Jul 2023	20 Feb 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	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>8	<1	3	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	<1	0	
Lead	ppm	ASTM D5185m	>2	0	0	0	
Copper	ppm	ASTM D5185m	>8	<1	0	0	
Tin	ppm	ASTM D5185m	>4	0	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	0	
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	<1	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		<1	0	0	
Magnesium	ppm	ASTM D5185m		0	0	0	
Calcium	ppm	ASTM D5185m		0	0	0	
Phosphorus	ppm	ASTM D5185m		0	0	0	
Zinc	ppm	ASTM D5185m		0	0	0	
Sulfur	ppm	ASTM D5185m	50	14	0	0	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>15	<1	1	0	
Sodium	ppm	ASTM D5185m		<1	0	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	0	
Water	%	ASTM D6304	>0.01	0.002	0.001	0.003	
ppm Water	ppm	ASTM D6304	>100	19.2	9.6	30.9	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>10000	6812	<b>4</b> 0644	3173	
Particles >6µm		ASTM D7647	>2500	1025	<u>4274</u>	380	
Particles >14µm		ASTM D7647	>320	35	28	15	
Particles >21µm		ASTM D7647	>80	6	5	5	
Particles >38µm		ASTM D7647	>20	1	0	1	
Particles >71µm		ASTM D7647	>4	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/17/12	<u>\$\rightarrow\$ 23/19/12</u>	19/16/11	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.015	0.015	



## **OIL ANALYSIS REPORT**





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: USP0003705

: 06008373 : 10742135 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 15 Nov 2023 Received

: 21 Nov 2023 Diagnosed Diagnostician : Doug Bogart

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)

TYSON-MADISON-USP

MADISON, NE US

Contact: RICK DUVAL

Contact/Location: RICK DUVAL - TYSMAD

T: (402)423-6375 F: (402)423-6661