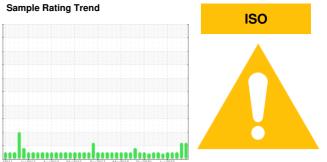


PROBLEM SUMMARY

Sample Rating Trend

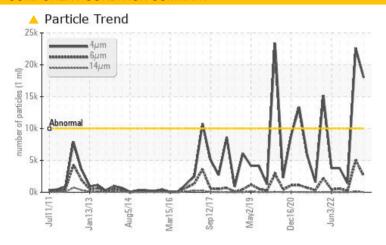


VILTER TYSMAD 4 VILT (S/N 12258 ABRCD)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status		ATTEN	TION ABNORMAL	NORMAL			
Particles >4µm	ASTM D7647 >	>10000 A 1799	2 22616	1407			
Particles >6µm	ASTM D7647 >	>2500 ^ 2524	<u></u> 5068	217			
Oil Cleanliness	ISO 4406 (c) >	>20/18/15 \(\) 21/19	/13 \(\) 22/20/14	18/15/10			

Customer Id: TYSMAD Sample No.: USP0003682 Lab Number: 06008367 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 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.



20 Oct 2022 Diag: Doug Bogart

NORMAL



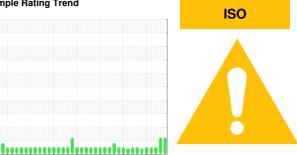
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for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





OIL ANALYSIS REPORT

Sample Rating Trend



VILTER TYSMAD 4 VILT (S/N 12258 ABRCD)

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.

d2011 Jan2013 Aug2014 Ma2016 Sep2017 May2019 Dec2020 Jun2022								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		USP0003682	USP0000842	USP246284		
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				ATTENTION	ABNORMAL	NORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>8	8	6	2		
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		<1	0	0		
Sulfur	ppm	ASTM D5185m	50	22	0	0		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	1	1	1		
Sodium	ppm	ASTM D5185m		<1	0	0		
Potassium	ppm	ASTM D5185m		<1	0	0		
Water	%	ASTM D6304		0.00	0.001	0.003		
ppm Water	ppm	ASTM D6304	>100	0.00	0.6	26.4		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>10000	<u> </u>	<u>22616</u>	1407		
Particles >6µm		ASTM D7647	>2500	<u>^</u> 2524	▲ 5068	217		
Particles >14μm		ASTM D7647	>320	42	88	7		
Particles >21μm		ASTM D7647	>80	7	10	2		
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> 21/19/13	<u>22/20/14</u>	18/15/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.016	0.014		

Contact/Location: RICK DUVAL - TYSMAD



OIL ANALYSIS REPORT







Certificate L2367

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

: 06008367 : 10742129

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 15 Nov 2023 : USP0003682 Received Diagnosed : 16 Nov 2023 Diagnostician : Doug Bogart

: IND 2

Test Package 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)

MADISON, NE US

Contact: RICK DUVAL

Contact/Location: RICK DUVAL - TYSMAD

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