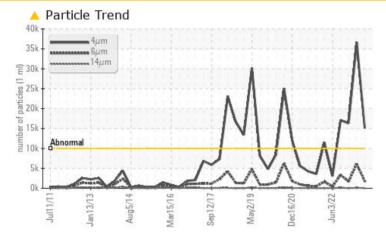


PROBLEM SUMMARY

TYSMAD 1 VILT

Refrigeration Compressor Fluid USPI 1009-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST	RESULTS			
Sample Status		ATTENTIC	N ABNORMAL	ATTENTION
Particles >4µm	ASTM D7647 >	10000 🔺 15122	▲ 36620	1 6316
Oil Cleanliness	ISO 4406 (c) >	20/18/15 🔺 21/18/1	3 🔺 22/20/14	A 21/18/12

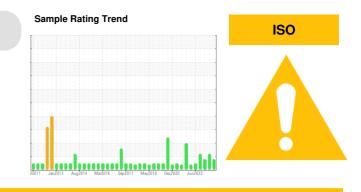
Customer Id: TYSMAD Sample No.: USP0003686 Lab Number: 06008363 Test Package: IND 2



To manage this report scan the QR code

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

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

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.



view report

20 Feb 2023 Diag: Doug Bogart

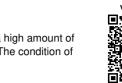
Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

20 Oct 2022 Diag: Doug Bogart



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.





Report Id: TYSMAD [WUSCAR] 06008363 (Generated: 11/17/2023 15:47:57) Rev: 1



OIL ANALYSIS REPORT

Sample Rating Trend

TYSMAD 1 VILT

Refrigeration Compressor Fluid USPI 1009-68 SC (--- GAL)

DIAGNOSIS

A Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0003686	USP0000832	USP246281
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	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	2	4	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	r	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0	<1	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m	27	<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп			U	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	2	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	2	0
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.01	0.00	0.002	0.003
ppm Water	ppm	ASTM D6304	>100	0.00	16.8	25.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>	▲ 36620	▲ 16316
Particles >6µm		ASTM D7647	>2500	1850	<u> </u>	1671
Particles >14µm		ASTM D7647	>320	49	117	21
Particles >21µm		ASTM D7647	>80	7	12	3
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 21/18/13	22/20/14	a 21/18/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.013	0.015	0.014

Report Id: TYSMAD [WUSCAR] 06008363 (Generated: 11/17/2023 15:47:58) Rev: 1

Contact/Location: RICK DUVAL - TYSMAD



Acid Number

0.02

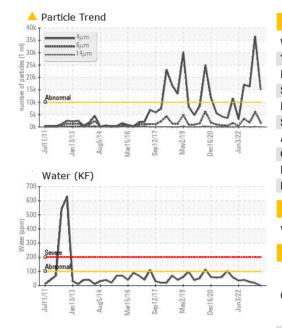
(B/HO)

Acid 1

OIL ANALYSIS REPORT

method

VISUAL





limit/base

current

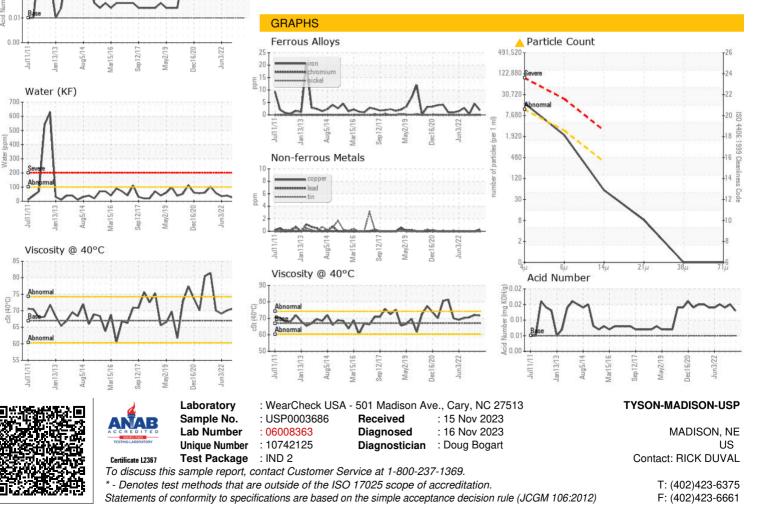
NONE

history1

history2

NONE

Bottom



Contact/Location: RICK DUVAL - TYSMAD