

# **PROBLEM SUMMARY**

### Sample Rating Trend



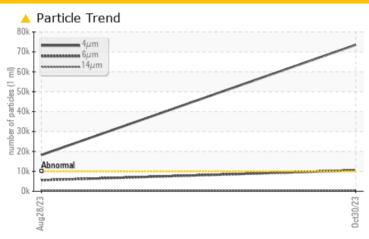
# VILTER 1ST STAGE

Component

**Screw Compressor** 

VILTER SF PAO 150 (150 GAL)

### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status			ABNORMAL	ABNORMAL						
Particles >4µm	ASTM D7647	>10000	<b>73544</b>	<u>▲</u> 18208						
Particles >6µm	ASTM D7647	>2500	<b>10499</b>	<u></u> 5551						
Particles >14μm	ASTM D7647	>320	<b>△</b> 543	<b>463</b>						
Particles >21μm	ASTM D7647	>80	<b>136</b>	<u> </u>						
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>23/21/16</b>	<u>\</u> 21/20/16						

Customer Id: TWIAND Sample No.: TO60000912 Lab Number: 05996274 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

28 Aug 2023 Diag: Don Baldridge

ISO



We recommend you service the filters on this component if applicable. 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. The condition of the oil is suitable for further service.





## **OIL ANALYSIS REPORT**

# Sample Rating Trend





# VILTER 1ST STAGE

Component

**Screw Compressor** 

VILTER SF PAO 150 (150 GAL)

### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Aug2023	Oct2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60000912	TO60000906	
Sample Date		Client Info		30 Oct 2023	28 Aug 2023	
Machine Age	hrs	Client Info		19202	17704	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	0	0	
Chromium	ppm	ASTM D5185m	>4	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>5	0	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>30	0	0	
Tin	ppm	ASTM D5185m	>15	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		4	6	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		140	218	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	19	36	
Sodium	ppm	ASTM D5185m		<1	<1	
Potassium	ppm		>20	4	4	
Water	%	ASTM D6304	>0.1	0.002	0.001	
ppm Water	ppm	ASTM D6304	>1000	24.7	13.8	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u>73544</u>	<u> </u>	
Particles >6μm		ASTM D7647	>2500	<u> </u>	▲ 5551	
Particles >14µm		ASTM D7647	>320	<u>^</u> 543	<u>463</u>	
Particles >21µm		ASTM D7647		<u> 136</u>	<u>118</u>	
Particles >38µm		ASTM D7647	>20	8	7	
Particles >71μm		ASTM D7647	>4	2	1	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>23/21/16</b>	<u>\$\text{\Delta}\$ 21/20/16</u>	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma KOH/a	ASTM D8045		0.45	0.23	

Acid Number (AN)

mg KOH/g ASTM D8045

0.23

0.45



### **OIL ANALYSIS REPORT**

