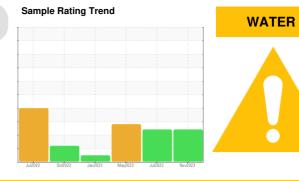


# **PROBLEM SUMMARY**

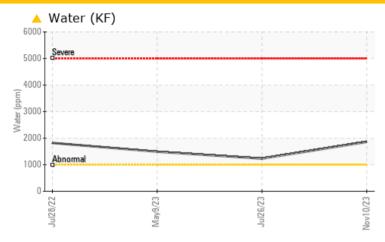
Area **88-30 DMG** Vac Pump #1 SC009938

**Vacuum Pump** 

**NOT GIVEN (--- GAL)** 



### **COMPONENT CONDITION SUMMARY**



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ATTENTION	ATTENTION	ABNORMAL				
Water	%	ASTM D6304	>.1	<b>△</b> 0.186	<b>△</b> 0.123	<b>△</b> 0.149				
ppm Water	ppm	ASTM D6304	>1000	<b>1860</b>	<u>1230</u>	<b>1</b> 490				
Appearance	scalar	*Visual	NORMI	<b>△</b> HAZY	▲ HAZY	▲ HAZY				

Customer Id: BOENOR **Sample No.:** WC0845493 Lab Number: 06014126 Test Package: PLANT



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

### 26 Jul 2023 Diag: Jonathan Hester

WATER



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Appearance is hazy. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## 09 May 2023 Diag: Jonathan Hester

WATER



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Appearance is hazy. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 26 Jan 2023 Diag: Jonathan Hester

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 condition of the oil is acceptable for the time in service.



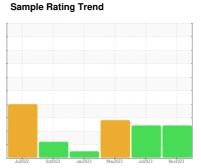


**OIL ANALYSIS REPORT** 

Area **88-30 DMG Vac Pump #1 SC009938** 

Vacuum Pump

**NOT GIVEN (--- GAL)** 





## **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Appearance is hazy. There is a light concentration of water 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	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845493	WC0770352	WC0770343
Sample Date		Client Info		10 Nov 2023	26 Jul 2023	09 May 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	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		13	8	
Iron	ppm	ASTM D5185m	>20	2	1	3
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	2
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		1	0	1
Phosphorus	ppm	ASTM D5185m		111	120	110
Zinc	ppm	ASTM D5185m		0	11	14
Sulfur	ppm	ASTM D5185m		312	380	776
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	<1
Sodium	ppm	ASTM D5185m		<1	2	4
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>.1	<b>△</b> 0.186	<b>△</b> 0.123	<b>△</b> 0.149
ppm Water	ppm	ASTM D6304	>1000	<b>1860</b>	<u> </u>	<u>▲</u> 1490
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.086	0.16	0.14



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory

Sample No. Lab Number **Unique Number** Test Package

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0845493 : 06014126 : 10753270

: PLANT

Received Diagnosed : 24 Nov 2023 Diagnostician : Doug Bogart

: 21 Nov 2023

THE BOEING COMPANY 5400 AIRFRAME DR NORTH CHARLESTON, SC US 29418

Contact: DAN HARRIS

DANIEL.R.HARRIS2@BOEING.COM T: (843)730-0805

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)

F: