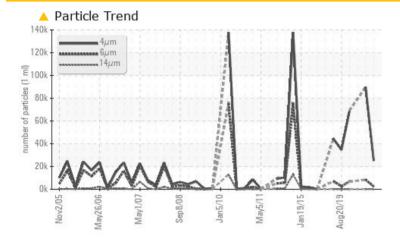


PROBLEM SUMMARY



Machine Id **16** Component **Turbine** Fluid **R&O OIL ISO 68 (--- QTS)**

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	ABNORMAL	SEVERE				
Particles >6µm	ASTM D7647	>1300	<u> </u>	<u> </u>					
Oil Cleanliness	ISO 4406 (c)	>/17/14	A 22/18/12	🔺 24/20/13					

Customer Id: COLALB Sample No.: WC0813291 Lab Number: 05923398 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</u>

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u> There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

14 Sep 2022 Diag: Angela Borella



No corrective action is recommended at this time. Resample at the next service interval to monitor.A decrease the iron level is noted. All other component wear rates are normal. There is a high amount of silt (particulates < 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.



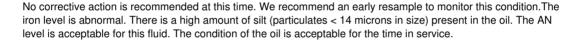
VISUAL METAL



We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. Moderate concentration of visible metal present. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.

08 Sep 2020 Diag: Don Baldridge







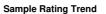
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OIL ANALYSIS REPORT



ISO

Machine Id 16 Component Turbine Fluid R&O OIL ISO 68 (--- QTS)

DIAGNOSIS

A Recommendation

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

Wear

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 acceptable for the time in service.

SAMPLE INFORM		method	06 May2007 Sep2008	Jan2010 May2011 Jan2015 J	history1	history2
Sample Number		Client Info		WC0813291	WC0700730	WC0577552
Sample Date		Client Info		13 Aug 2023	14 Sep 2022	16 Nov 2021
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	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	8	1 6	65
Chromium	ppm	ASTM D5185m	>4	0	0	1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	0
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		1	1	3
Tin	ppm	ASTM D5185m	>5	0	0	<1
Antimony	ppm	ASTM D5185m				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	5	0	0	0
Barium	ppm	ASTM D5185m	5	<1	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	5	6	<1	0
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m	100	2	0	2
Zinc	ppm	ASTM D5185m	25	19	0	0
Sulfur	ppm	ASTM D5185m	1500	0	0	79
CONTAMINANTS			limit/base	current	history1	history2
Silicon Sodium	ppm	ASTM D5185m ASTM D5185m	>15	<1 1	0	<1 0
Potassium	ppm	ASTM D5185m	>20	0	1	0
	ppm					
FLUID CLEANLIN Particles >4µm	NEOO	method ASTM D7647	limit/base	current 25179	history1 89468	history2
Particles >6µm		ASTM D7647 ASTM D7647	>1300	<u>23179</u>	▲ 8383	
Particles >14µm		ASTM D7647 ASTM D7647	>160	37	68	
Particles >21µm		ASTM D7647		5	5	
Particles >38µm		ASTM D7647	>10	0	0	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/14	▲ 22/18/12	▲ 24/20/13	

Acid Number (AN) mg KOH/g ASTM D8045 0.08

FLUID DEGRADATION

method

limit/base

current

0.09

0.062

history1

history2

0.064



Acid Number

0.50

(B/HOX Bu) 0.30

E 0.20 Pio 0.1

0.00

80 75

70

(40°C)

5 60 55

50

45

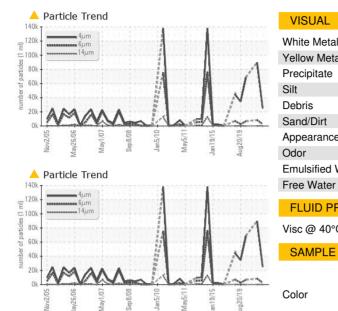
OIL ANALYSIS REPORT

scalar

method

*Visual

VISUAL





limit/base

NONE

current

NONE

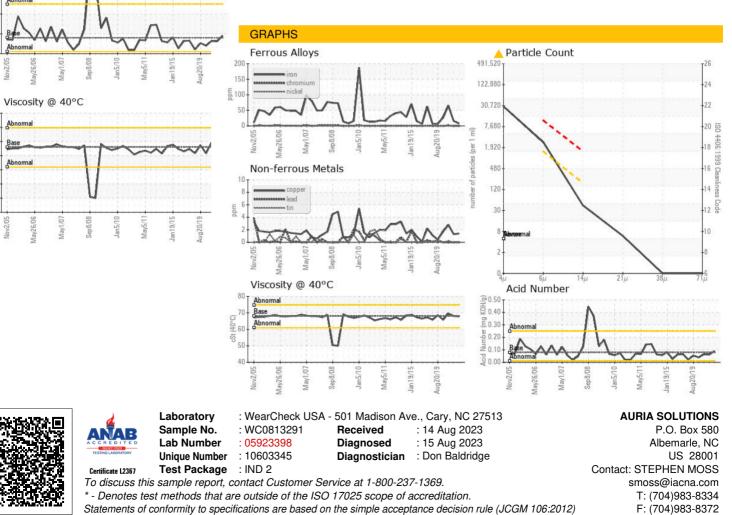
history1

VLITE

history2

MODER

Bottom



Contact/Location: STEPHEN MOSS - COLALB