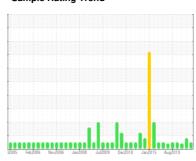


# **OIL ANALYSIS REPORT**

Sample Rating Trend







Machine Id
11
Component
Turbine
Fluid

**R&O OIL ISO 68 (--- QTS)** 

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### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

### **Fluid Condition**

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

		12005 Feb20	06 Nov2006 Jan2008	Jut2009 Dec2010 Jan2015 J	hug2019	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0813286	WC0700725	WC0577547
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				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	2	11	8
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	0
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m	>5	1	2	1
Tin	ppm	ASTM D5185m	>5	0	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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	0	0
Magnesium	ppm	ASTM D5185m	5	6	0	0
Calcium	ppm	ASTM D5185m	5	0	0	0
Phosphorus	ppm	ASTM D5185m	100	4	0	2
Zinc	ppm	ASTM D5185m	25	17	0	0
Sulfur	ppm	ASTM D5185m	1500	3	21	88
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	>20	<1	1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		13673	109753	56113
Particles >6µm		ASTM D7647	>1300	931	<u>▲</u> 9268	<u>△</u> 2961
Particles >14µm		ASTM D7647	>160	18	31	28
Particles >21µm		ASTM D7647	>40	5	2	4
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/14	21/17/11	<u>4</u> 24/20/12	<u>\$\text{\Delta}\$ 23/19/12</u>
FLUID DEGRADA	TION	ام ممالات مما	1::		111	111
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.08

0.078

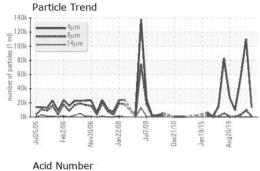
0.092

0.066



## **OIL ANALYSIS REPORT**

SAMPLE IMAGES

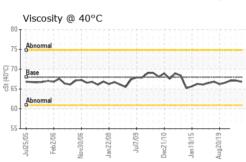


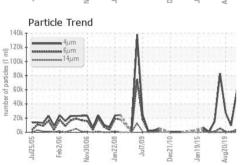
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.03	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

0.24 Abno							
0.18 - 0.12 - 0.06 - 0.06	٨			٨		Λ	
0.12 - Rase	11	10	m	1		11	
0.06	A	V	V \	1	11	力上	~
	ormal				V		

FLUID PROPER	RTIES	method				history
Visc @ 40°C	cSt	ASTM D445	68	66.8	67.1	67.1







GRAPHS						
Ferrous Allo	oys				Particle Count	
					491,520	T <sup>26</sup>
************ chromi	ium		٨		122,880	-24
~/	V. V	1-	1		30,720	-22
/	~	Y ~~	~ \	~~	7,680	+20
Jui25,05 Feb2,06	Nov3U/U6	Juf7/09	Jan 19/15	Aug20/19	1.920 tadjona do namon do namo	+20 -18 -16 -14
	5 K	, ed	Jai	Aug	d sep	
Non-ferrou	s Metals				480	116
copper	1				120-	-14
ting	λ σ	•		11111111	30	+12
Vindo.	ZW/	VAA	_/		8 National 8	-10
5 8 8	9 8	£ 2	-S-	6	2	+8
Jul25,05	Nov3U/U6	Jul7/09	Jan 19/15	Aug20/19		
Viscosity @				A	$^{04}\mu$ $^{6}\mu$ $^{14}\mu$ $^{21}\mu$	38μ 71μ <sup>6</sup>
				naganaa	Acid Number	
Abnormal					Abnormal	
Base			A		€0.18-	A
Abnormal	$\sim$	·	_		090.30 Abnomal  Abnomal  Abnomal  Abnomal	/1
11111111		1111111		1111111	Abnormal	~
Jul25/05 Feb2/06	Jan 22/08	Jul7/09 -	Jan19/15	Aug20/19	A A Juli25/05 Feb2/06 - Juli25/06 - Juli25/08 - Juli/09 - Juli/09 - Dec21/10	Jan 19/15 -
글 로	Nov Jan	n oa	Jan	Aug	July Nov Land	Jan





Laboratory Sample No. Lab Number

Unique Number : 10603317

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0813286 : 05923370

Received Diagnosed

: 14 Aug 2023 Diagnostician : Don Baldridge

: 15 Aug 2023

P.O. Box 580 Albemarle, NC US 28001 Contact: STEPHEN MOSS

**AURIA SOLUTIONS** 

smoss@iacna.com T: (704)983-8334 F: (704)983-8372

Test Package : IND 2 Certificate L2367 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)

Report Id: COLALB [WUSCAR] 05923370 (Generated: 08/15/2023 12:16:44) Rev: 1

Contact/Location: STEPHEN MOSS - COLALB