

PROBLEM SUMMARY

Sample Rating Trend

ISO

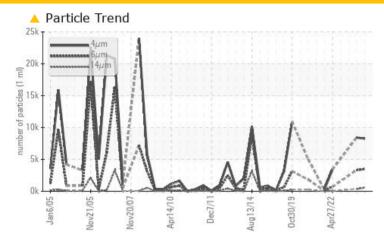


Cogen 2 Machine Id 016GE14003

Component **Turbine**

ROYAL PURPLE SYNFILM GT 32 (500 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >6µm	ASTM D7647	>1300	4 3479	△ 3330			
Particles >14µm	ASTM D7647	>160	△ 566	△ 361			
Particles >21µm	ASTM D7647	>40	173	<u>▲</u> 112			
Oil Cleanliness	ISO 4406 (c)	>/17/14	20/19/16	20/19/16			

Customer Id: ENTHOU Sample No.: RP0020399 Lab Number: 05982363 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

09 Jul 2023 Diag: Don Baldridge





We recommend you service the filters on this component. 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.



21 Mar 2023 Diag: Don Baldridge

VIS DEBRIS



We recommend you service the filters on this component. 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. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

10 Oct 2022 Diag: Doug Bogart

VISUAL METAL



We recommend you service the filters on this component. We advise that you inspect for possible wear. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Cogen 2 Machine Id 016GE14003

Turbine

ROYAL PURPLE SYNFILM GT 32 (500 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. 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

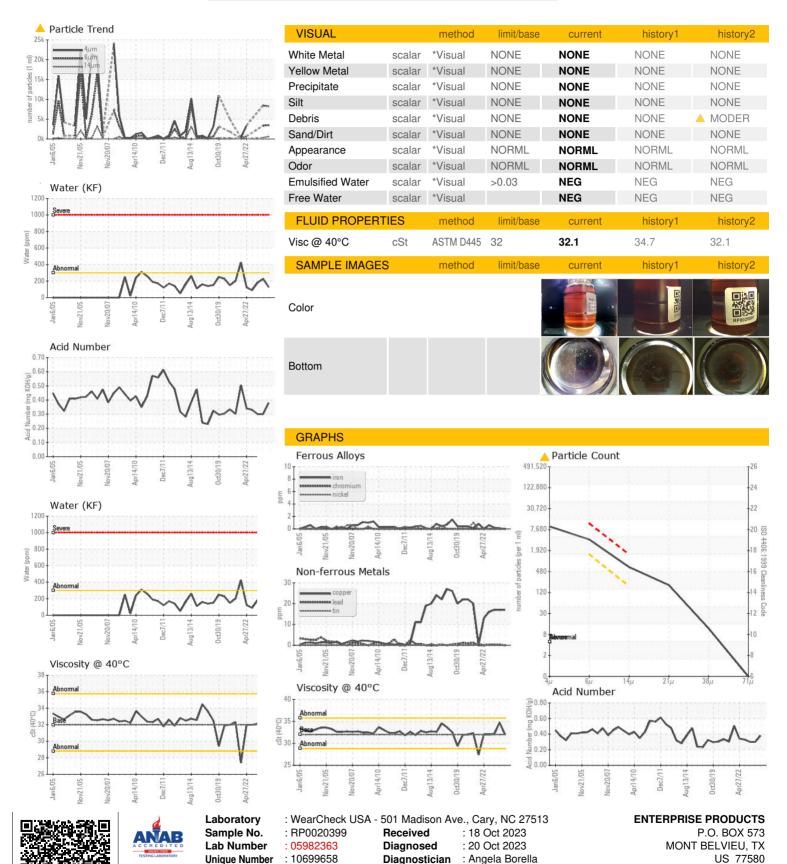
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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	12005 Nov2005 Nov2007 Apr2010 Dec2011 Aug2014 Oct2019 Apr2022
SAMPLE INFORMATION	method limit/base current h

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0020399	RP0027208	RP0020801
Sample Date		Client Info		17 Oct 2023	09 Jul 2023	21 Mar 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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	0	<1	<1
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	2	1
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m	>5	17	17	17
Tin	ppm	ASTM D5185m	>5	0	<1	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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		74	33	82
Calcium	ppm	ASTM D5185m		0	<1	2
Phosphorus	ppm	ASTM D5185m		<1	1	1
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	\15	2	2	3
Sodium	ppm	ASTM D5185m	>10	4	1	0
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	%	ASTM D6304	>0.03	0.012	0.022	0.017
ppm Water	ppm	ASTM D6304	>300	126.1	225.6	179.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	1000	8235	8438	
Particles >6µm		ASTM D7647		<u>▲</u> 3479	▲ 3330 ▲ 334	
Particles >14µm		ASTM D7647	>160	<u>^</u> 566	<u>▲</u> 361	
Particles >21µm		ASTM D7647		<u>▲</u> 173	<u>112</u>	
Particles >38µm		ASTM D7647	>10	10	5	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/14	<u>^</u> 20/19/16	<u>^</u> 20/19/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.38	0.30	0.30



OIL ANALYSIS REPORT

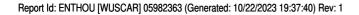


Test Package : IND 2 (Additional Tests: PrtCount)

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

To discuss this sample report, contact Customer Service at 1-800-237-1369.



Certificate L2367

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