

OIL ANALYSIS REPORT

ISO

Area Cogen 2 016GE14001

Turbine Fluid ROYAL PURPLE SYNFILM GT 32 (500 GAL)

DIAGNOSIS

A 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. The water content is negligible.

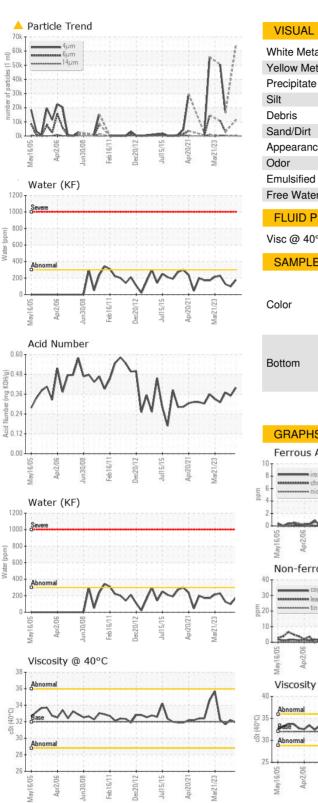
Fluid Condition

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

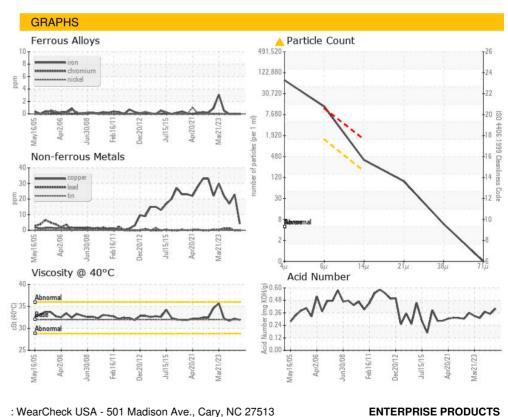
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0041055	RP0027568	RP0020799
Sample Date		Client Info		09 Apr 2024	21 Jan 2024	17 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>15	0	0	0
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	0	0
Lead	ppm	ASTM D5185m		0	0	1
Copper	ppm	ASTM D5185m	>5	4	23	17
Tin	ppm	ASTM D5185m	>5	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	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		72	85	65
Calcium	ppm	ASTM D5185m		1	4	0
Phosphorus	ppm	ASTM D5185m		17	0	30
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	1	<1
Sodium	ppm	ASTM D5185m		3	2	4
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.03	0.017	0.009	0.012
ppm Water	ppm	ASTM D6304	>300	178	98	126.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		64417		16382
Particles >6µm		ASTM D7647	>1300	<u> </u>		A 3046
Particles >14µm		ASTM D7647	>160	A 335		273
Particles >21µm		ASTM D7647	>40	<mark>/</mark> 83		4 94
Particles >38µm		ASTM D7647	>10	5		7
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/14	A 23/21/16		1 /19/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.35	0.37



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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
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	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.03	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
i ice water	Jouran	VISUUI			NLG	NLG
FLUID PROPERT		method	limit/base	current	history1	history2
			limit/base 32			
FLUID PROPERT	I <mark>ES</mark> cSt	method		current	history1	history2
FLUID PROPERT	I <mark>ES</mark> cSt	method ASTM D445	32	current 31.9	history1 32.2	history2 31.7





Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : RP0041055 Received : 10 Apr 2024 Lab Number : 06144234 Tested : 11 Apr 2024 Unique Number : 10969042 Diagnosed : 12 Apr 2024 - Angela Borella Test Package : IND 2 (Additional Tests: PrtCount) Certificate 12367 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)

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Contact/Location: TOMMY EDWARDS - ENTHOU

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