

## **OIL ANALYSIS REPORT**

### Area Red Bluff Plant/Cryogenic/Compressor **GEA FES C-261**

Rotary Compressor SUMMIT PGI 100 (250 GAL)

#### DIAGNOSIS

#### Recommendation

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

#### Wear

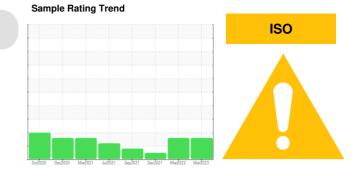
All component wear rates are normal.

#### 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.



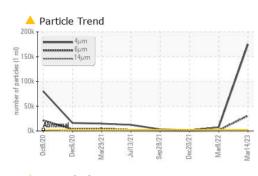
SAMPLE INFORM		method	limit/base		history1	history2
Sample Number		Client Info		TO90002294	TO90000693	TO9000165
Sample Date		Client Info		14 Mar 2023	08 Mar 2022	20 Dec 202
Machine Age	hrs	Client Info		0	0	0
Dil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m		8	6	4
Chromium	ppm	ASTM D5185m	>10	1	0	0
Nickel	ppm	ASTM D5185m		1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>3	1	<1	0
Lead	ppm	ASTM D5185m	>4	0	0	<1
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m	>3	<1	3	2
Antimony	ppm	ASTM D5185m			1	2
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	2	0
Barium	ppm	ASTM D5185m		0	0	0
Volybdenum	ppm	ASTM D5185m		<1	0	0
Vanganese	ppm	ASTM D5185m		<1	0	0
Vagnesium	ppm	ASTM D5185m		0	0	1
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		61	456	371
Zinc	ppm	ASTM D5185m		0	8	9
Sulfur	ppm	ASTM D5185m		0	22	28
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	1	<1	1
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.6	0.015	0.006	0.063
opm Water	ppm	ASTM D6304		153.9	60.9	632.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>174982</b>	▲ 7469	1515
Particles >6µm		ASTM D7647	>320	<u> </u>	▲ 1592	312
Particles >14µm		ASTM D7647	>80	<mark> </mark> 83	<b>9</b> 2	19
Particles >21µm		ASTM D7647	>20	13	▲ 22	3
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
				A		10/15/11
		ISO 4406 (c)	>18/15/13	<u> </u>	▲ 20/18/14	18/15/11
Oil Cleanliness		ISO 4406 (c) method	>18/15/13 limit/base	Current	history1	history2

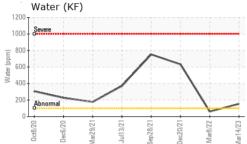
Report Id: ENEORL [WUSCAR] 05797422 (Generated: 05/22/2024 13:26:27) Rev: 1

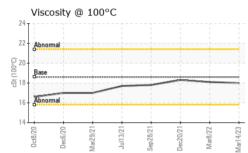
Submitted By: ERIC THORNTON

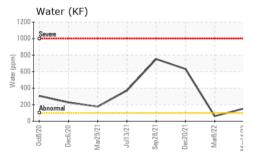


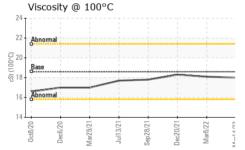
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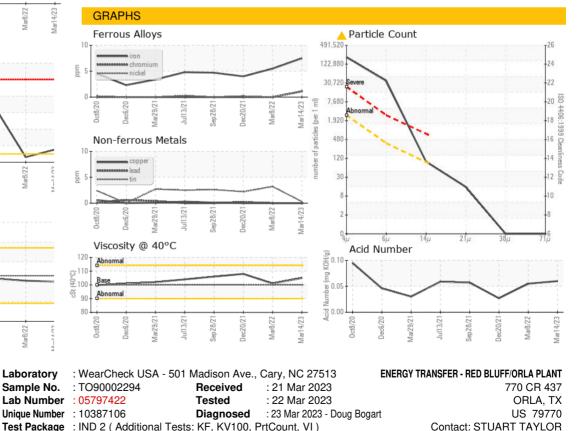






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	VLITE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	105	101	108
Visc @ 100°C	cSt	ASTM D445	18.6	18.0	18.1	18.3
Viscosity Index (VI)	Scale	ASTM D2270	185	190	198	188
SAMPLE IMAGES me		method	limit/base	current	history1	history2
Color						





Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) 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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Laboratory

Sample No.

Submitted By: ERIC THORNTON Page 2 of 2

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F: