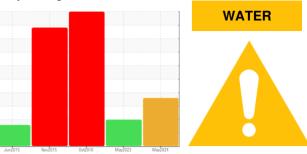


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

RACK C Component Refrigeration Compressor Fluid Copeland Ultra 32-3MAF (--- GAL)

#### DIAGNOSIS

#### A Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

#### 🔺 Wear

The iron level is abnormal. All other component wear rates are normal.

#### Contamination

There is a light concentration of water present in the oil.

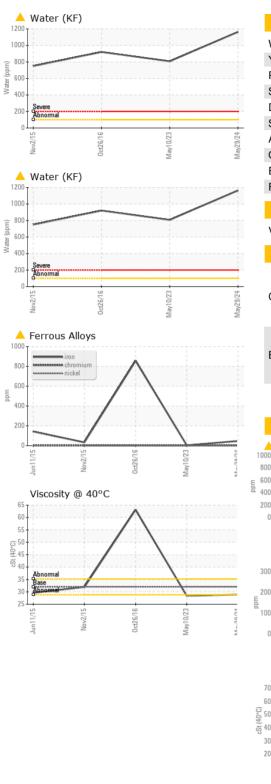
### Fluid Condition

The AN level is above the recommended limit.

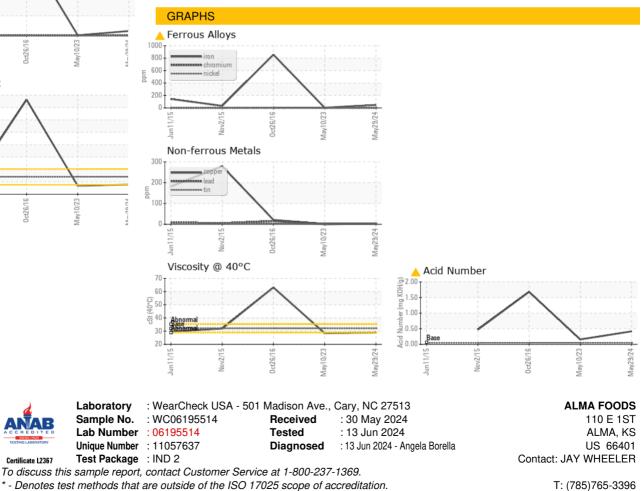
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC06195514	WC05850587	WCI2288300
Sample Date		Client Info		29 May 2024	10 May 2023	26 Oct 2016
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<b>4</b> 7	3	▲ 856
Chromium	ppm	ASTM D5185m	>2	<1	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	<1	2	<1
Lead	ppm	ASTM D5185m	>2	3	0	<u> </u>
Copper	ppm	ASTM D5185m	>8	2	2	<u> </u>
Tin	ppm	ASTM D5185m	>4	2	<1	4
Antimony	ppm	ASTM D5185m				4
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m	0	0	7	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	600	4	0	6
Zinc	ppm	ASTM D5185m	0	32	15	95
Sulfur	ppm	ASTM D5185m	50	13	0	8
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	method ASTM D5185m	limit/base	current 3	history1 4	history2 8
Silicon	ppm	ASTM D5185m		3	4	8
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>15 >20	3 <1	4	8
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>15 >20	3 <1 1	4 0 0	8 0 0
Silicon Sodium Potassium Water	ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>15 >20 >0.01	3 <1 1 ▲ 0.116	4 0 0 ▲ 0.080	8 0 0 • 0.092



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	NONE	🔺 MODER	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	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32.0	28.9	28.4	63.13
Visc @ 40°C SAMPLE IMAGES		ASTM D445 method	32.0 limit/base	28.9 current	28.4 history1	63.13 history2
-					-	



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

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Contact/Location: JAY WHEELER - ALMALMWC

F: (785)765-2294