

# **OIL ANALYSIS REPORT**

### WEAR

# Area **ENG RM** 4 **4B3** (S/N 0136) Component

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

#### DIAGNOSIS

#### A Recommendation

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

## 🔺 Wear

The iron level is abnormal.

## 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.

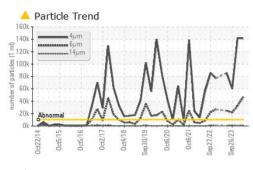
# 

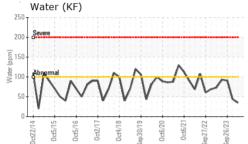
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0008028	USP0005033	USP0001645
Sample Date		Client Info		28 Mar 2024	02 Jan 2024	26 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<b>4</b> 74	<u> </u>	<u> </u>
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	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		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.003	0.004	0.009
ppm Water	ppm	ASTM D6304	>100	35	44	90.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	🔺 141315	▲ 141843	▲ 59959
Particles >6µm		ASTM D7647	>2500	<b>46055</b>	▲ 32686	<b>A</b> 21691
Particles >14µm		ASTM D7647	>320	<b>A</b> 932	<b>4</b> 59	<b>6</b> 91
Particles >21µm		ASTM D7647	>80	<mark>/</mark> 98	48	77
Particles >38µm		ASTM D7647	>20	0	1	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>4</b> 24/23/17	▲ 24/22/16	▲ 23/22/17
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.042	0.014	0.014

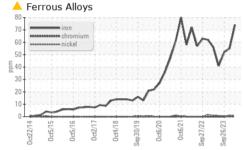
Contact/Location: SERVICE MANAGER ? - CONRUS

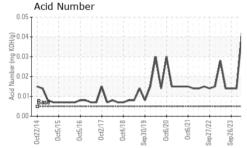


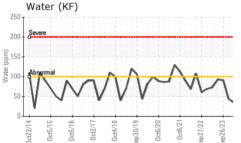
# **OIL ANALYSIS REPORT**





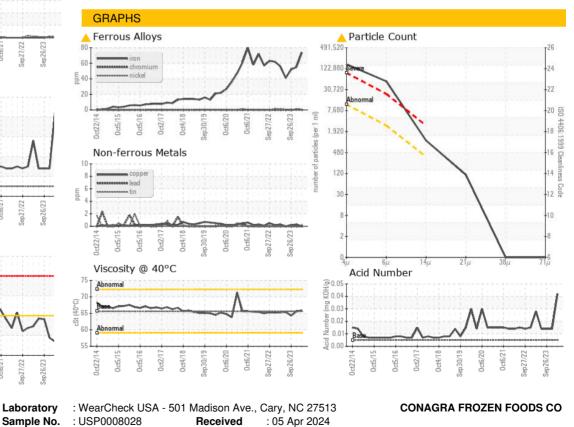






VISUAL		method	limit/base	current	biotoput	history
VISUAL		methou	IIIIII/Dase	Current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE	NONE
Debris	scalar	*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
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT		method	limit/base	current	history1	history2
	IL0	methou	IIIIII/Dase	Current	Thistory I	TIISTOL A
Visc @ 40°C	cSt	ASTM D445	65.6	65.9	65.6	64.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				• • • • • • •		

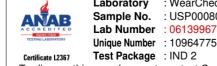
Bottom



: 08 Apr 2024

: 08 Apr 2024 - Doug Bogart





Certificate 12367 Test Package : IND 2 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)

Tested

Diagnosed

Report Id: CONRUS [WUSCAR] 06139967 (Generated: 04/08/2024 13:37:14) Rev: 1

Contact/Location: SERVICE MANAGER ? - CONRUS

US

T:

F:

RUSSELLVILLE, AR

Contact: SERVICE MANAGER