

## **OIL ANALYSIS REPORT**

### Sample Rating Trend



Machine Id

# INGERSOLL RAND BOX ROOM 100HP I/R (S/N NK3393U18115)

Component

**Air Compressor** 

USPI MAX FG AIR 46 (--- LTR)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

Additive levels indicate the addition of a different brand or type of oil. The AN level is approaching the top-end of the recommended limit. Confirmed.

		2010 1-20	20 42020   12021   12021   12021	n2022 Aug2022 Mar2023 Sep2023	5-3724	
SAMPLE INFORM	MATION	l method	limit/base		history1	history2
Sample Number		Client Info		USPM36892	USPM30957	USPM31686
Sample Date		Client Info		20 Mar 2024	11 Feb 2024	28 Dec 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				ATTENTION	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	0
Chromium	ppm	ASTM D5185m	>4	0	<1	0
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	0
Lead	ppm	ASTM D5185m	>20	0	<1	0
Copper	ppm	ASTM D5185m	>40	0	1	<1
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	<u> </u>	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	0	0	<1	0
Calcium	ppm	ASTM D5185m	0	2	0	0
Phosphorus	ppm	ASTM D5185m	0	<b>36</b>	0	0
Zinc	ppm	ASTM D5185m	0	0	0	0
Sulfur	ppm	ASTM D5185m	0	<b>108</b>	0	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	1	2
Sodium	ppm	ASTM D5185m		<1	0	4
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Water	%	ASTM D6304	>0.6	0.021	0.036	0.064
ppm Water	ppm	ASTM D6304	>6000	210	361	644
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	274	1641	921
Particles >6µm		ASTM D7647	>2500	88	476	383
Particles >14μm		ASTM D7647	>320	11	33	45
Particles >21µm		ASTM D7647	>80	3	6	10
Particles >38μm		ASTM D7647	>20	0	0	1
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	15/14/11	18/16/12	17/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045 0.16

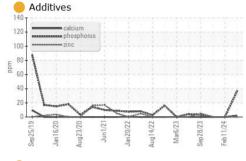
<u>^</u> 2.89

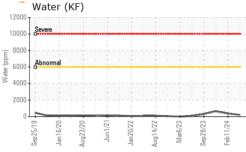
**1.26** 

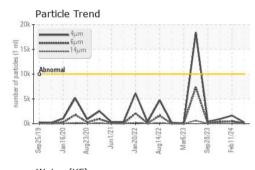
**8.043** 

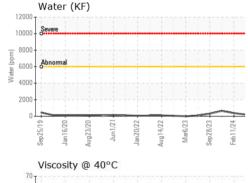


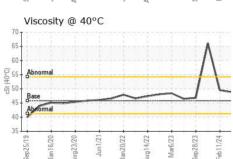
## **OIL ANALYSIS REPORT**







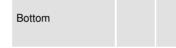




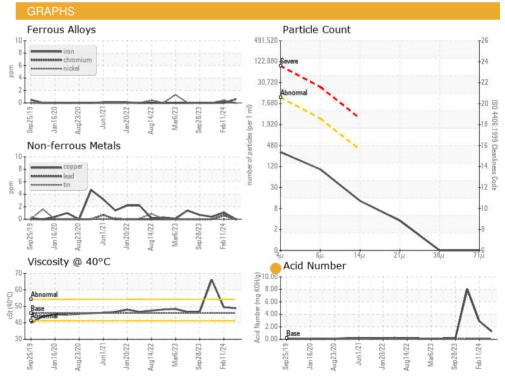
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VISUAL		method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	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	
<b>Emulsified Water</b>	scalar	*Visual	>0.6	NEG	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	NEG	
FLUID PROPERTIES							

Visc @ 40°C	cSt	ASTM D445	45.8	48.8	49.5	▲ 66.1
SAMPLE IMAGE	ES					

Color









Laboratory Sample No. Lab Number : 06124950

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM36892

Unique Number : 10939101

Received : 21 Mar 2024 **Tested** : 27 Mar 2024

Diagnosed

: 27 Mar 2024 - Doug Bogart

**CARGILL FOODS** NEBRASKA CITY, NE

Contact: SERVICE MANAGER

Test Package : IND 2 Certificate L2367 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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F: