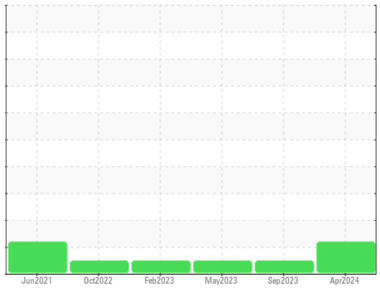
OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL

Machine Id
INGERSOLL RAND CBV444397
Component
Compressor
Fluid
INGERSOLL-RAND SSR ULTRA COOLANT (--- QTS)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor.

Wear
Moderate concentration of visible metal present. All component wear rates are normal.

Contamination
There is no indication of any contamination in the oil.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0902627**	WC0832550	WC0762018
Sample Date		Client Info		**03 Apr 2024**	18 Sep 2023	08 May 2023
Machine Age	hrs	Client Info		**12963**	12628	12225
Oil Age	hrs	Client Info		**365**	3031	0
Oil Changed		Client Info		**Not Changd**	Changed	Not Changd
Sample Status				**ABNORMAL**	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.1	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**0**	0	0
Chromium	ppm	ASTM D5185m	>5	**0**	0	<1
Nickel	ppm	ASTM D5185m		**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>15	**0**	0	<1
Lead	ppm	ASTM D5185m	>65	**0**	0	<1
Copper	ppm	ASTM D5185m	>65	**0**	<1	<1
Tin	ppm	ASTM D5185m	>10	**0**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	0	<1
Barium	ppm	ASTM D5185m	500	**980**	865	928
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m	0	**<1**	0	11
Calcium	ppm	ASTM D5185m	0	**3**	9	2
Phosphorus	ppm	ASTM D5185m	20	**0**	1	<1
Zinc	ppm	ASTM D5185m	0	**2**	4	22
Sulfur	ppm	ASTM D5185m	200	**414**	437	339

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	**14**	4	4
Sodium	ppm	ASTM D5185m		**9**	20	12
Potassium	ppm	ASTM D5185m	>20	**0**	1	6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.076**	0.27	0.232

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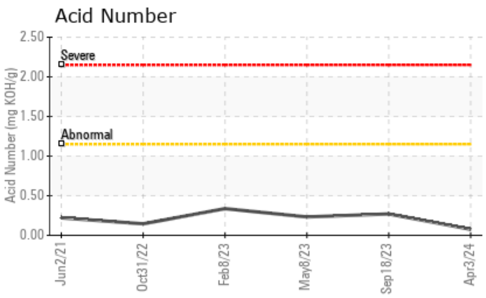
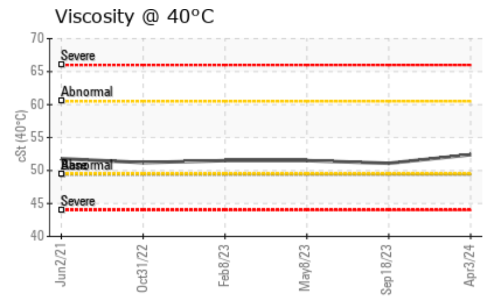
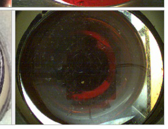


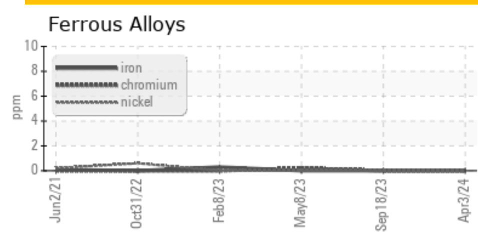


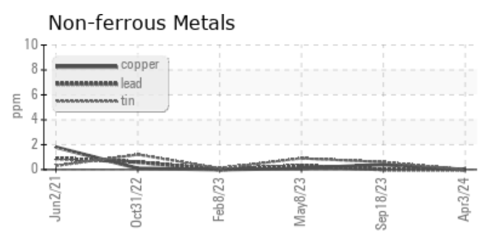
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	▲ **MODER**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
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	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

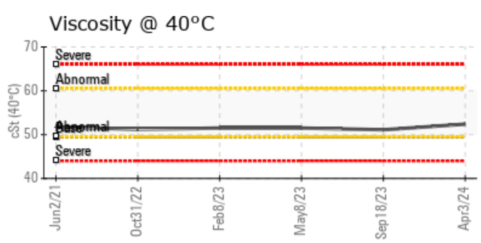
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.4	**52.4**	51.1	51.5

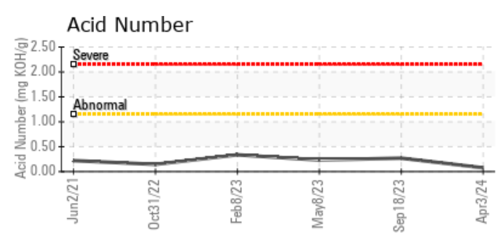
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0902627 **Received** : 12 Apr 2024
Lab Number : 06147470 **Tested** : 15 Apr 2024
Unique Number : 10977548 **Diagnosed** : 16 Apr 2024 - Don Baldridge
Test Package : IND 2

MERCY ONE MEDICAL CENTER

DES MOINES, IA
US 50313
Contact: ROB MILES

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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