



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Area

326058 [2010367126]

Machine Id

INGERSOLL RAND MOX1002460- EVONIK

Component

Compressor

Fluid

INGERSOLL-RAND ULTRA EL (--- GAL)

RECOMMENDATION

We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC06077675	APC05976473	APC12308455
Sample Date		Client Info		29 Jan 2024	04 Oct 2023	27 Jul 2021
Machine Age	hrs	Client Info		29399	26625	7835
Oil Age	hrs	Client Info		2774	1423	7835
Filter Age	hrs	Client Info		2774	1423	2000
Oil Changed		Client Info		N/A	N/A	Not Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	2	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>25	2	0	<1
Copper	ppm	ASTM D5185m	>50	2	<1	2
Tin	ppm	ASTM D5185m	>15	2	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

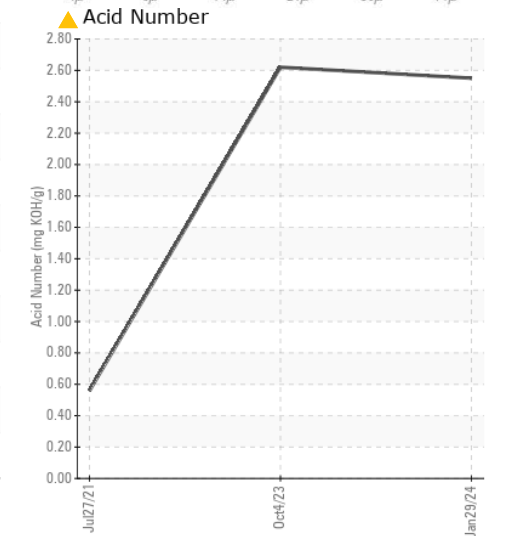
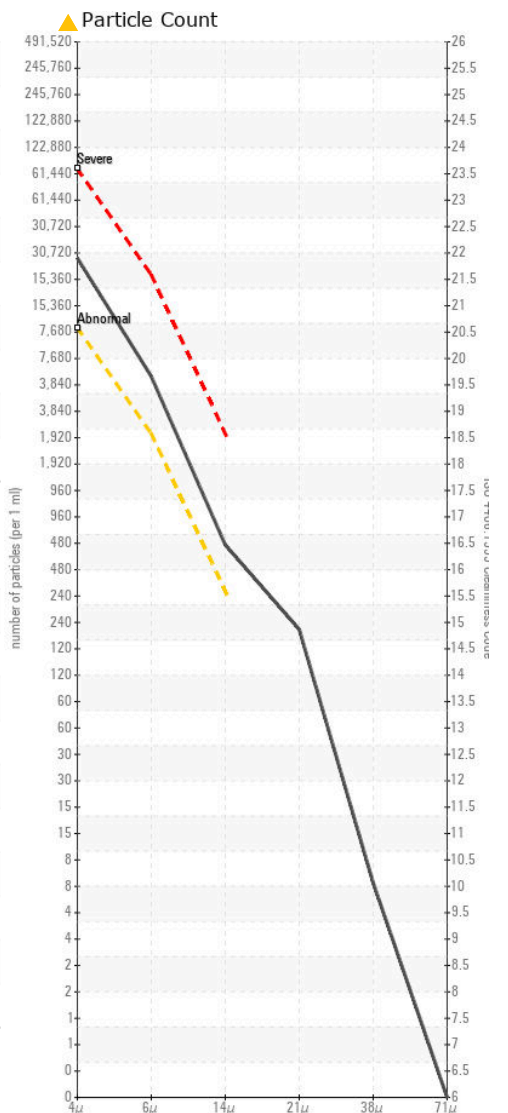
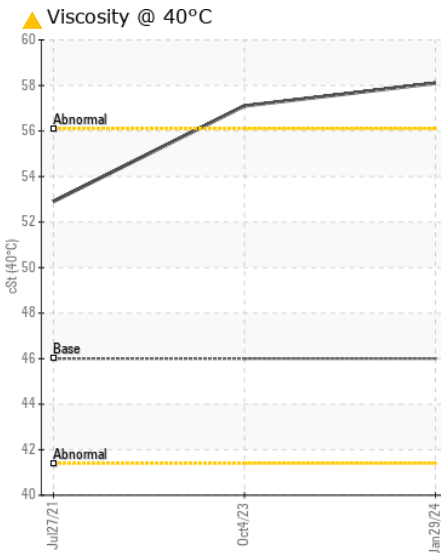
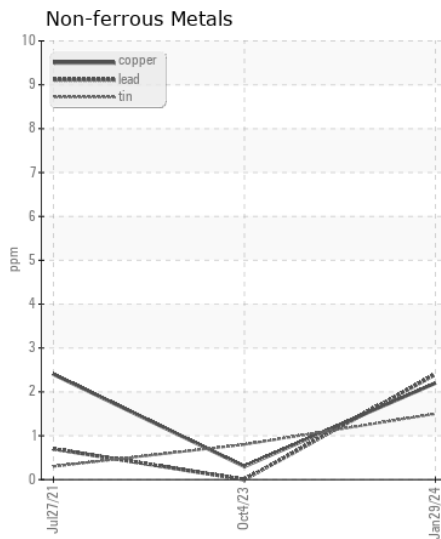
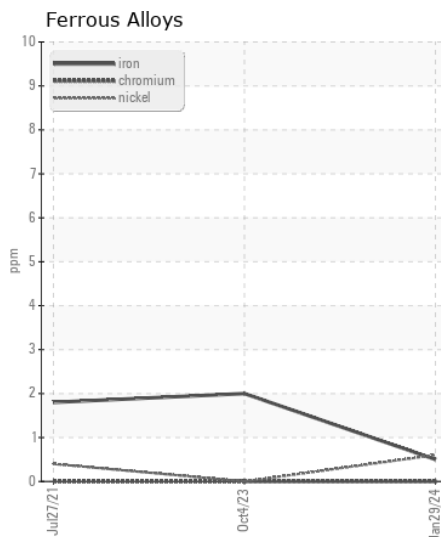
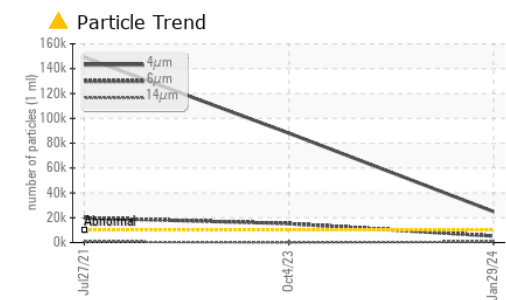
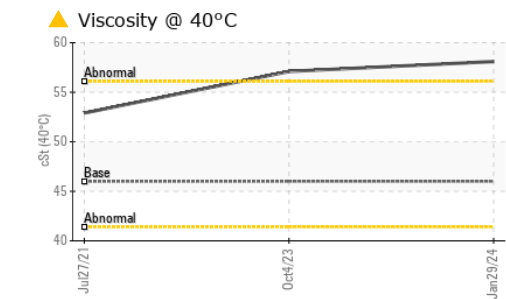
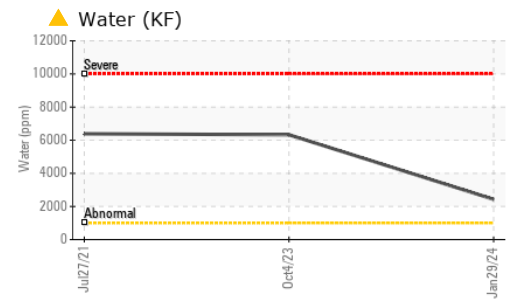
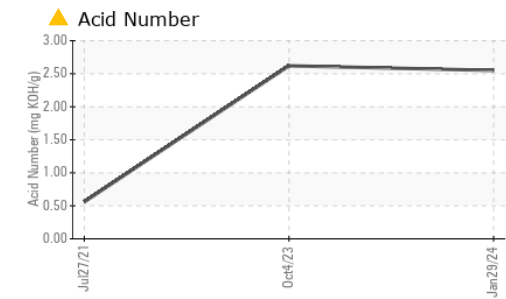
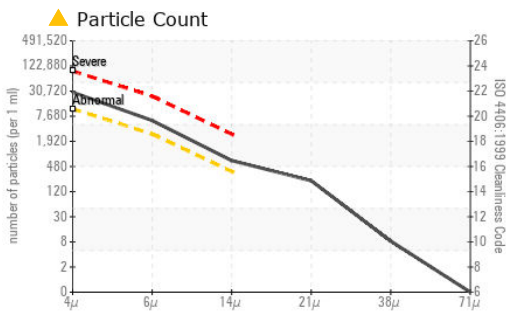
There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>25	1	<1	1
Potassium	ppm	ASTM D5185m	>20	7	4	6
Water	%	ASTM D6304	>0.1	▲ 0.242	▲ 0.632	▲ 0.638
ppm Water	ppm	ASTM D6304	>1000	▲ 2429	▲ 6328.5	▲ 6389.1
Particles >4µm		ASTM D7647	>10000	▲ 24900	▲ 88034	▲ 149210
Particles >6µm		ASTM D7647	>2500	▲ 5285	▲ 15251	▲ 19827
Particles >14µm		ASTM D7647	>320	▲ 584	144	▲ 609
Particles >21µm		ASTM D7647	>80	▲ 193	29	▲ 112
Particles >38µm		ASTM D7647	>20	7	3	5
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 22/20/16	▲ 24/21/14	▲ 24/21/16
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
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is above the recommended limit. The oil viscosity is higher than normal. The oil is no longer serviceable.

Sodium	ppm	ASTM D5185m		27	31	40
Boron	ppm	ASTM D5185m		6	3	8
Barium	ppm	ASTM D5185m		0	0	419
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		2	<1	<1
Magnesium	ppm	ASTM D5185m		1	3	7
Calcium	ppm	ASTM D5185m		3	2	8
Phosphorus	ppm	ASTM D5185m		73	69	91
Zinc	ppm	ASTM D5185m		4	0	14
Sulfur	ppm	ASTM D5185m		450	350	281
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 2.55	▲ 2.62	0.559
Visc @ 40°C	cSt	ASTM D445	46	▲ 58.1	▲ 57.1	52.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : APC06077675 **Received** : 01 Feb 2024
Lab Number : 06077675 **Tested** : 02 Feb 2024
Unique Number : 10859766 **Diagnosed** : 04 Feb 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AIR PRODUCTS AND CHEMICALS INC - ALLENTOWN
 7201 HAMILTON BLVD
 ALLENTOWN, PA
 US 18195
 Contact: MICHAEL PROTZEK
 protzema@airproducts.com

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: