



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Area

Milliken

Machine Id

INGERSOLL RAND 10462488 - MILLIKEN (S/N EE3749U14162)

Component

Compressor

Fluid

INGERSOLL-RAND SSR ULTRA COOLANT (36 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC0000504	APC0000502	APC0000505
Sample Date		Client Info		10 Jun 2024	21 Mar 2024	05 Dec 2023
Machine Age	hrs	Client Info		0	35258	33073
Oil Age	hrs	Client Info		2000	2000	2000
Filter Age	hrs	Client Info		2000	2000	2000
Oil Changed		Client Info		Changed	N/A	Not Changed
Filter Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	0	1
Chromium	ppm	ASTM D5185m	>10	0	0	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	2
Lead	ppm	ASTM D5185m	>25	<1	0	<1
Copper	ppm	ASTM D5185m	>50	2	<1	1
Tin	ppm	ASTM D5185m	>15	12	14	13
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

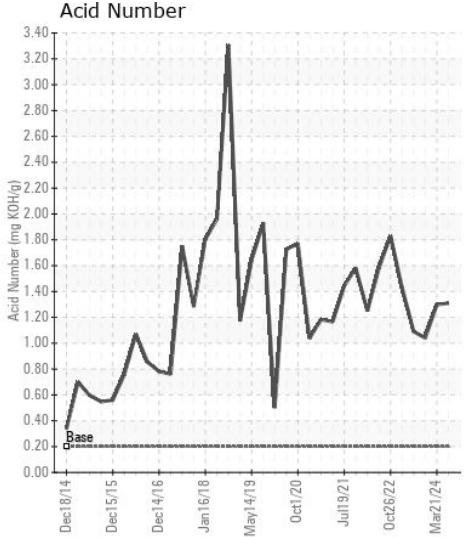
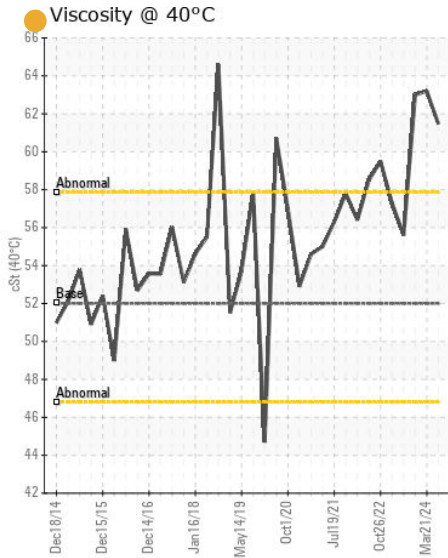
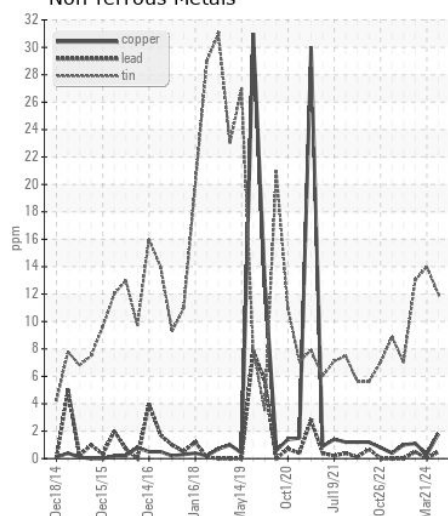
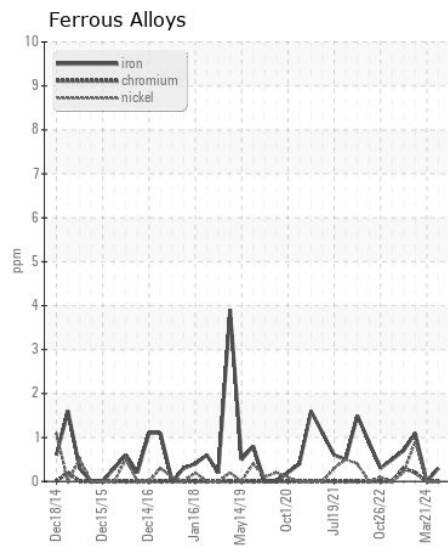
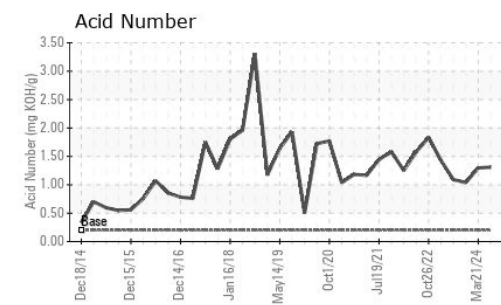
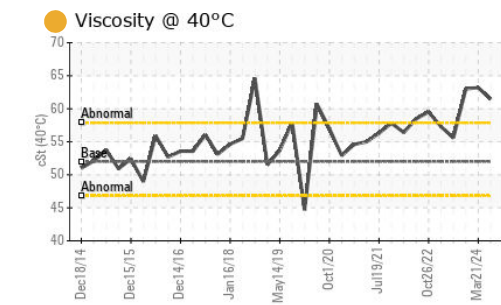
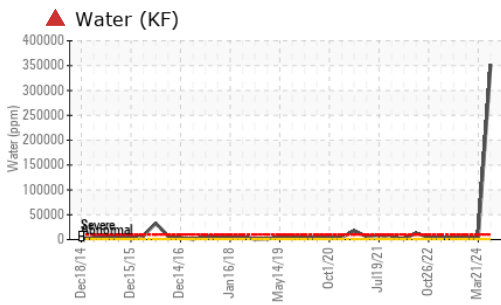
There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

Silicon	ppm	ASTM D5185m	>25	<1	<1	2
Potassium	ppm	ASTM D5185m	>20	9	11	12
Water	%	ASTM D6304	>0.1	▲ 35.2	0.351	0.262
ppm Water	ppm	ASTM D6304	>1000	▲ 352000	3514	2625
Particles >4µm		ASTM D7647	>10000	---	8592	8373
Particles >6µm		ASTM D7647	>2500	---	2381	1729
Particles >14µm		ASTM D7647	>320	---	144	96
Particles >21µm		ASTM D7647	>80	---	28	21
Particles >38µm		ASTM D7647	>20	---	1	1
Particles >71µm		ASTM D7647	>4	---	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	---	20/18/14	20/18/14
Silt	scalar	*Visual	NONE	▲ MODER	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	▲ 0.2%	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		24	89	101
Boron	ppm	ASTM D5185m		5	0	2
Barium	ppm	ASTM D5185m	556	43	72	83
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		9	1	<1
Calcium	ppm	ASTM D5185m	242	26	6	2
Phosphorus	ppm	ASTM D5185m	0	8	3	27
Zinc	ppm	ASTM D5185m	0	7	<1	0
Sulfur	ppm	ASTM D5185m	306	549	400	276
Acid Number (AN)	mg KOH/g	ASTM D8045	0.2	1.31	1.297	1.04
Visc @ 40°C	cSt	ASTM D445	52	61.47	63.2	63.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : APC0000504
Lab Number : 06212476
Unique Number : 11085340
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)

T:
F: