



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SAP-351260 - GREAT LAKES CHEMICAL - SOUTH
 Machine Id
INGERSOLL RAND US-0177237-PRISM-PSA - GREAT LAKES CHEMICAL SOUTH (S/N E2075U08197)
 Component
Compressor
 Fluid
INGERSOLL-RAND SSR ULTRA COOLANT (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC05267382	APC05201413	APC12320767
Sample Date		Client Info		17 May 2021	25 Feb 2021	20 Nov 2020
Machine Age	hrs	Client Info		26976	25008	22680
Oil Age	hrs	Client Info		4296	2328	2136
Filter Age	hrs	Client Info		1968	2328	2136
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	5	2	6
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m		<1	0	2
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		1	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>25	<1	<1	0
Copper	ppm	ASTM D5185m	>50	1	<1	<1
Tin	ppm	ASTM D5185m	>15	1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

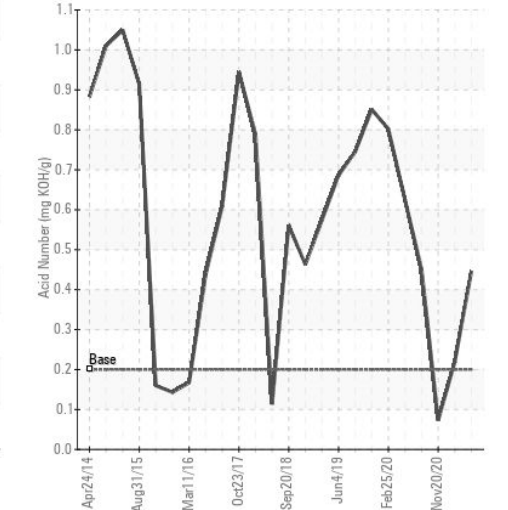
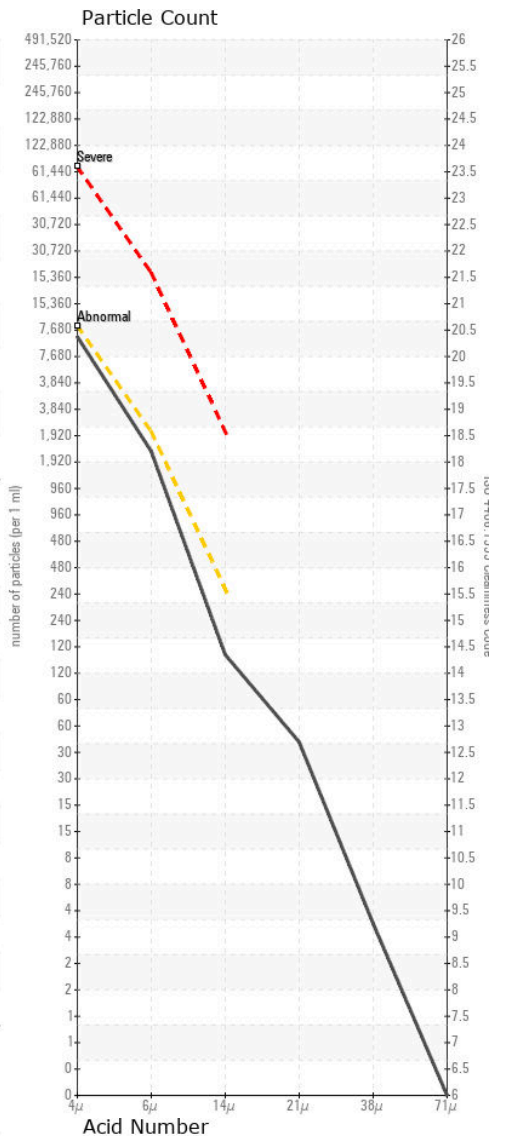
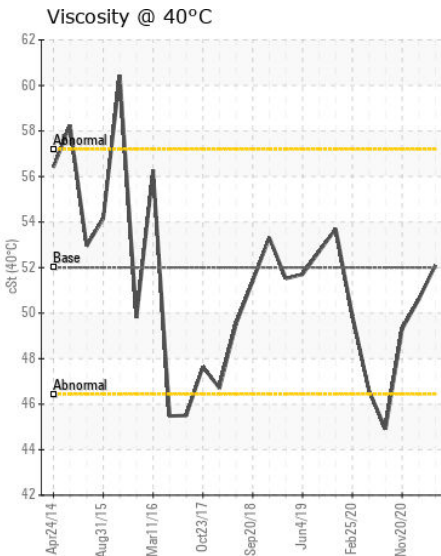
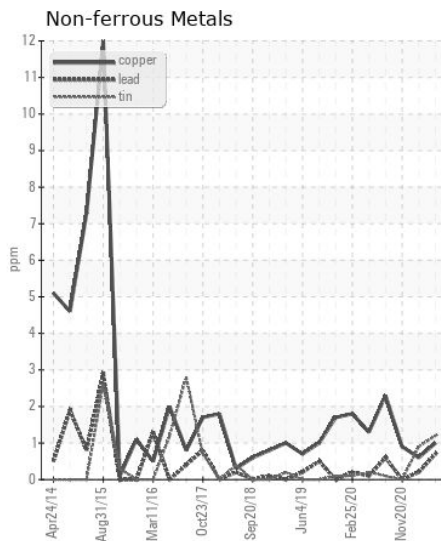
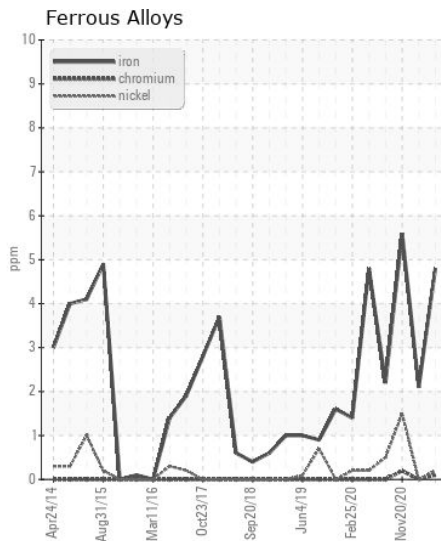
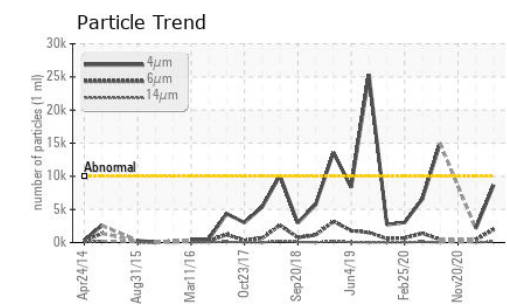
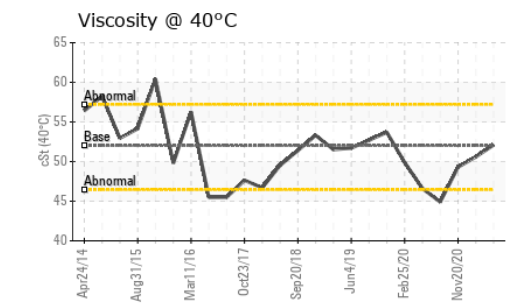
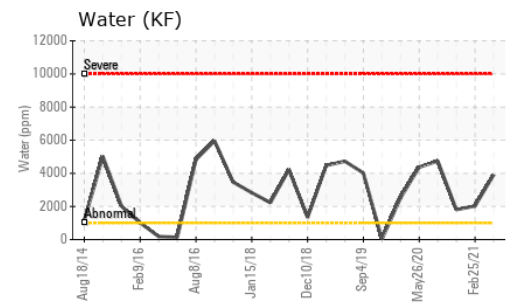
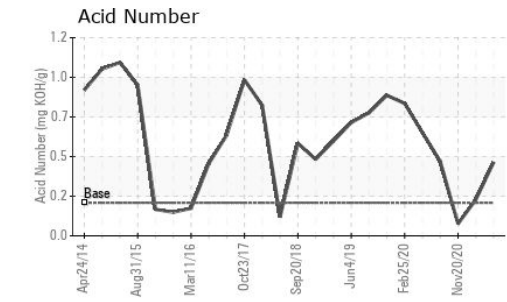
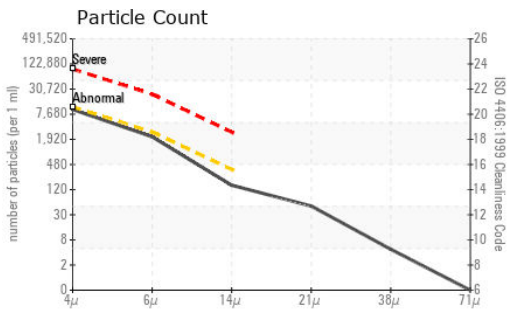
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	1	0	0
Potassium	ppm	ASTM D5185m	>20	4	2	0
Water	%	ASTM D6304	>0.1	0.391	0.202	0.180
ppm Water	ppm	ASTM D6304	>1000	3910.5	2024.1	1804.7
Particles >4µm		ASTM D7647	>10000	8658	2110	---
Particles >6µm		ASTM D7647	>2500	1933	419	---
Particles >14µm		ASTM D7647	>320	135	27	---
Particles >21µm		ASTM D7647	>80	43	9	---
Particles >38µm		ASTM D7647	>20	4	0	---
Particles >71µm		ASTM D7647	>4	0	0	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	20/18/14	18/16/12	---
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 acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		38	21	24
Boron	ppm	ASTM D5185m		3	2	3
Barium	ppm	ASTM D5185m	556	776	871	790
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		5	0	0
Calcium	ppm	ASTM D5185m	242	5	<1	3
Phosphorus	ppm	ASTM D5185m	0	11	7	0
Zinc	ppm	ASTM D5185m	0	79	20	47
Sulfur	ppm	ASTM D5185m	306	344	379	295
Acid Number (AN)	mg KOH/g	ASTM D8045	0.2	0.446	0.219	0.073
Visc @ 40°C	cSt	ASTM D445	52	52.1	50.6	49.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : APC05267382
Lab Number : 05267382
Unique Number : 9526314
Test Package : IND 2 (Additional Tests: KF, PrtCount)

Received : 01 Jun 2021
Tested : 03 Jun 2021
Diagnosed : 03 Jun 2021 - Jonathan Hester

AIR PRODUCTS AND CHEMICALS INC - ALLENTOWN
 7201 HAMILTON BLVD
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 US 18195
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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)