



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**SAP-10928376 - DARAMIC [2010594540]**

Machine Id  
**KAESER 1056 - DARAMIC**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) S-460 (30 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>APC06217274</b>	APC06074782	APC06036867
Sample Date		Client Info		<b>11 Jun 2024</b>	04 Dec 2023	06 Sep 2023
Machine Age	hrs	Client Info		<b>23653</b>	17702	15702
Oil Age	hrs	Client Info		<b>8457</b>	2180	2180
Filter Age	hrs	Client Info		<b>2433</b>	2188	2180
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>3</b>	<1	0
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>50	<b>5</b>	1	10
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

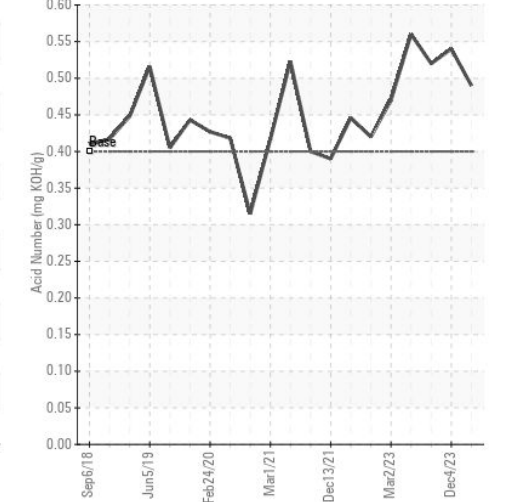
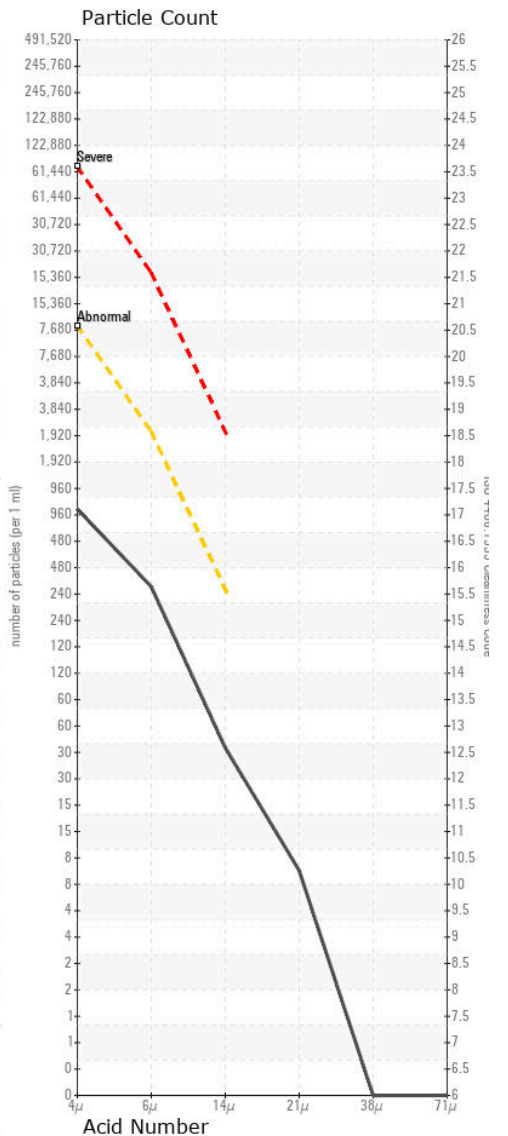
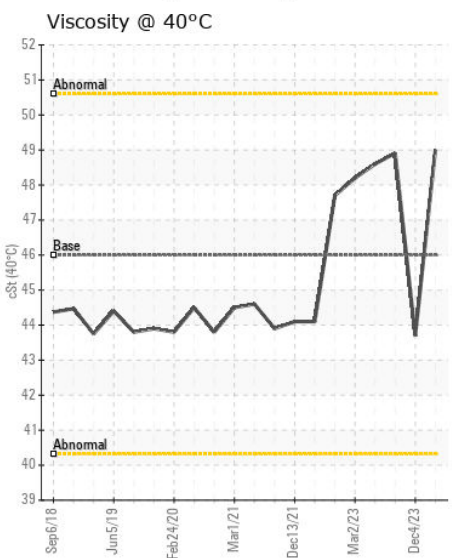
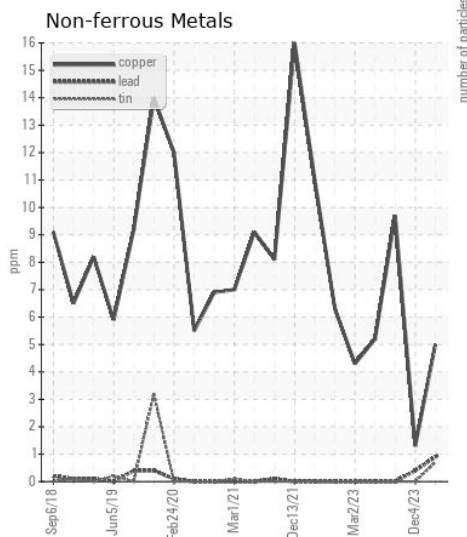
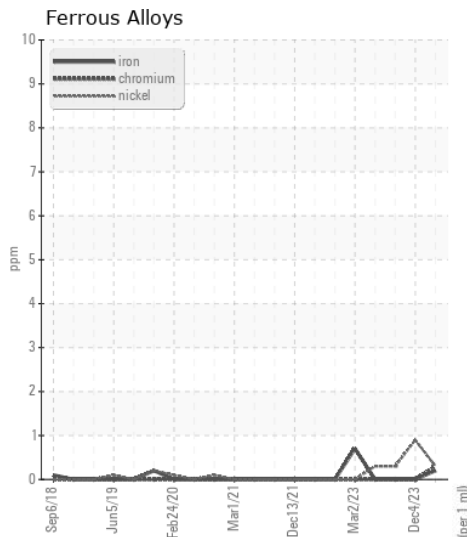
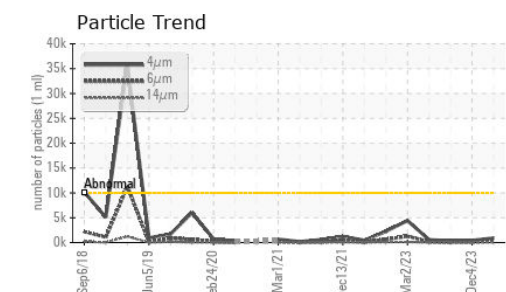
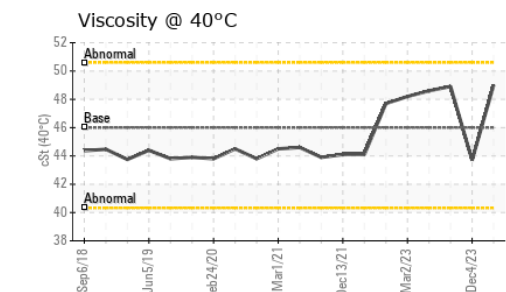
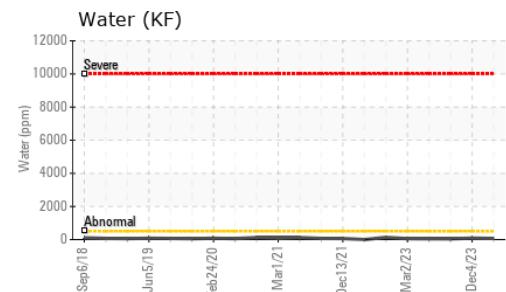
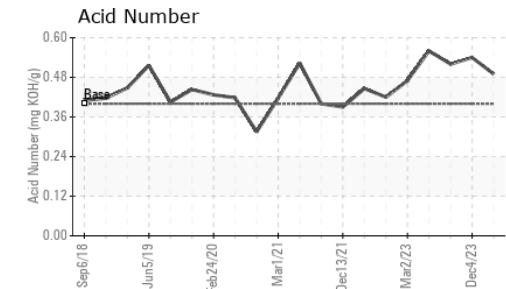
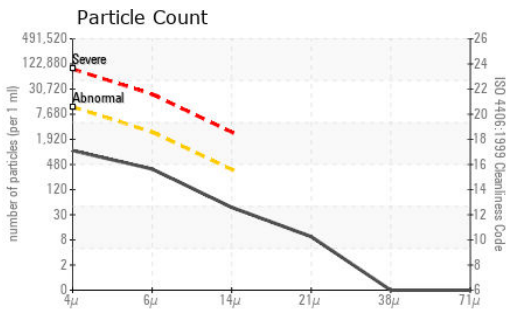
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	6	1
Water	%	ASTM D6304	>0.05	<b>0.006</b>	0.008	0.004
ppm Water	ppm	ASTM D6304	>500	<b>68</b>	87	45
Particles >4µm		ASTM D7647	>10000	<b>907</b>	436	357
Particles >6µm		ASTM D7647	>2500	<b>329</b>	116	70
Particles >14µm		ASTM D7647	>320	<b>40</b>	16	5
Particles >21µm		ASTM D7647	>80	<b>8</b>	4	1
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>17/16/12</b>	16/14/11	16/13/10
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	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		<b>0</b>	11	1
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m	90	<b>1</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	90	<b>&lt;1</b>	56	<1
Calcium	ppm	ASTM D5185m	2	<b>0</b>	3	0
Phosphorus	ppm	ASTM D5185m		<b>7</b>	2	<1
Zinc	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Sulfur	ppm	ASTM D5185m		<b>18134</b>	19230	16544
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	<b>0.49</b>	0.54	0.52
Visc @ 40°C	cSt	ASTM D445	46	<b>49.0</b>	43.7	48.91



Certificate L2367

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

**Sample No.** : APC06217274

**Lab Number** : 06217274

**Unique Number** : 11090138

**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**Received** : 21 Jun 2024

**Tested** : 25 Jun 2024

**Diagnosed** : 25 Jun 2024 - Don Baldrige

**AIR PRODUCTS AND CHEMICALS INC - ALLENTOWN**

7201 HAMILTON BLVD

ALLENTOWN, PA

US 18195

Contact: MICHAEL PROTZEK

protzema@airproducts.com

T:

F:

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)