



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SAP-320537
Machine Id
KAESER 1273 - SIVANCE
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (50 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC0000448	APCI2308438	APC0001320
Sample Date		Client Info		13 Jun 2024	02 Apr 2024	16 Feb 2024
Machine Age	hrs	Client Info		59294	57597	56505
Oil Age	hrs	Client Info		4500	1800	700
Filter Age	hrs	Client Info		2000	1800	700
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	2	<1	0
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	2	1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	7	4	3
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

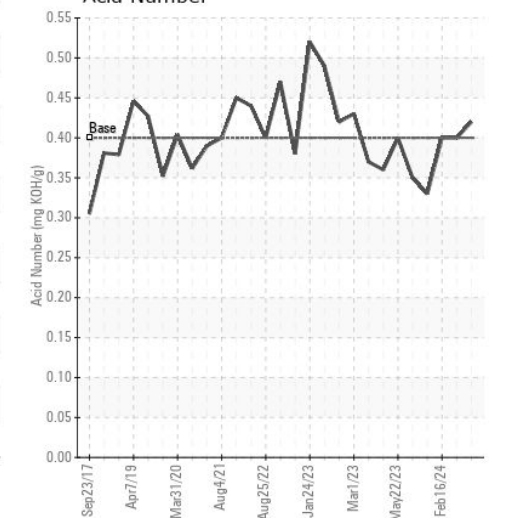
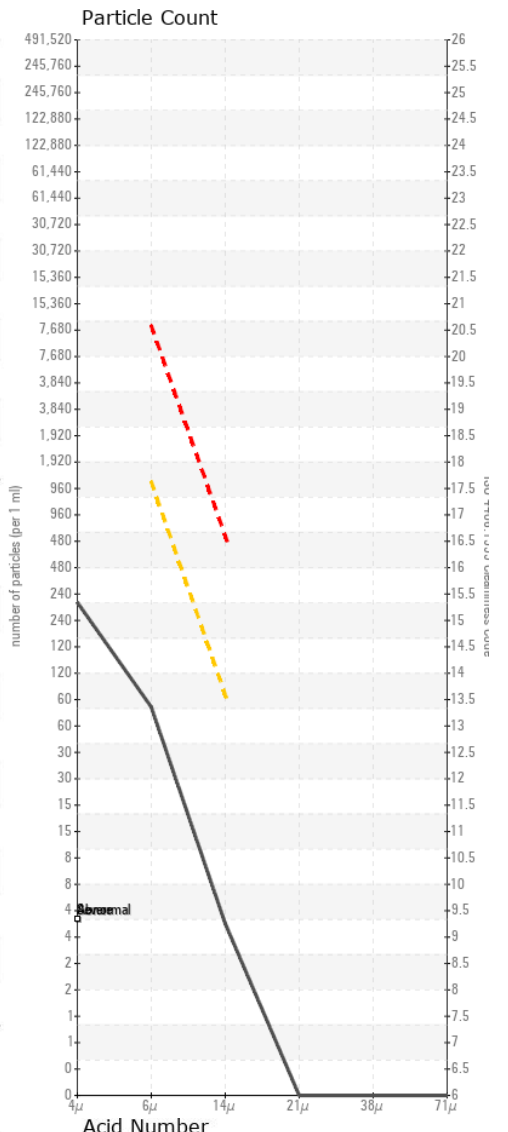
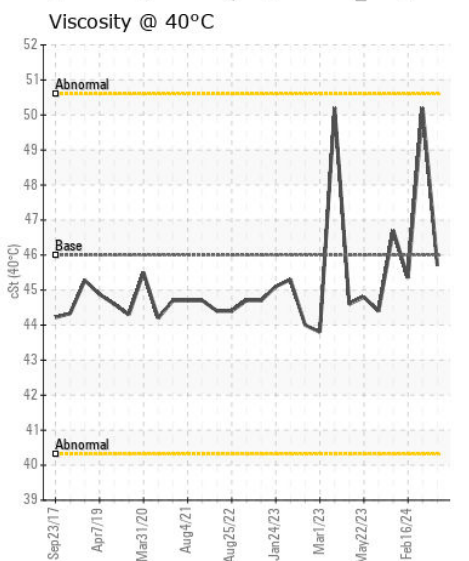
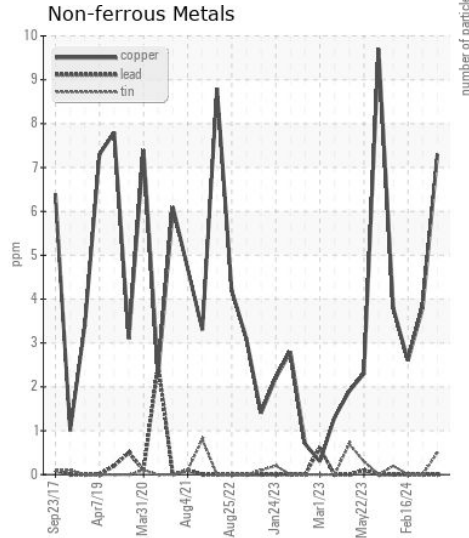
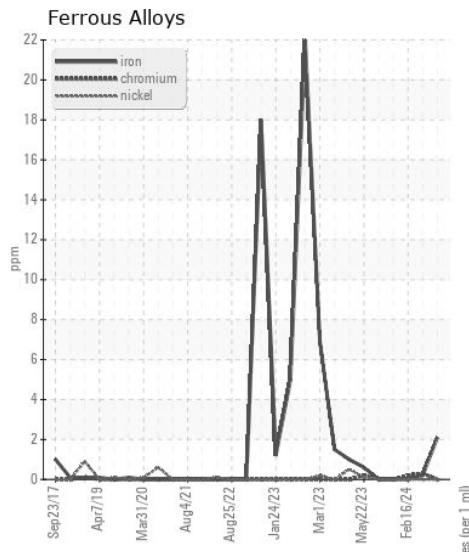
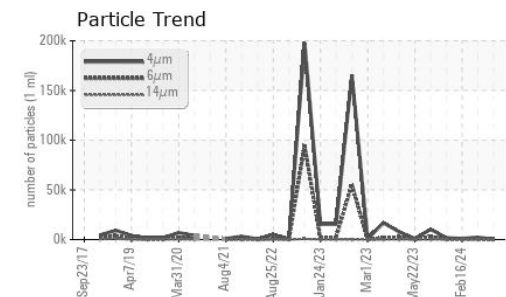
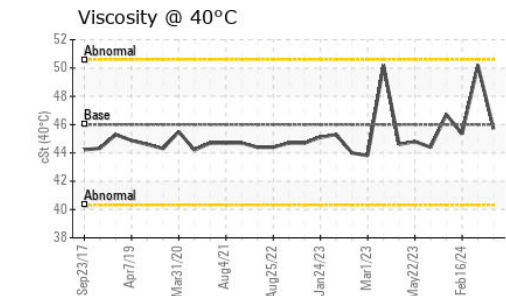
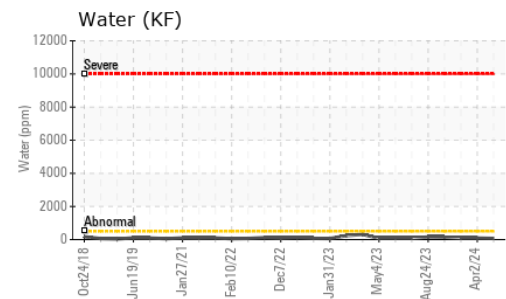
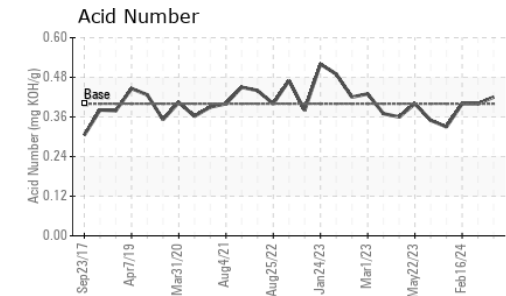
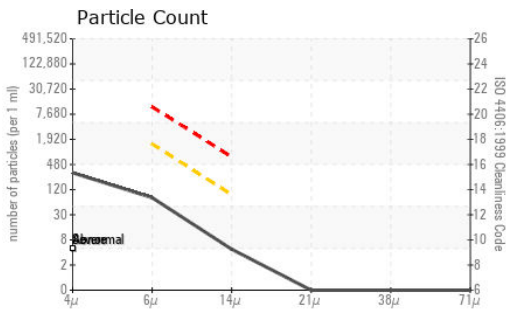
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	2	2	0
Potassium	ppm	ASTM D5185m	>20	3	<1	1
Water	%	ASTM D6304	>0.05	0.006	0.009	0.009
ppm Water	ppm	ASTM D6304	>500	69	90	92
Particles >4µm		ASTM D7647		268	2338	1046
Particles >6µm		ASTM D7647	>1300	68	566	285
Particles >14µm		ASTM D7647	>80	4	24	21
Particles >21µm		ASTM D7647	>20	0	3	6
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	--/17/13	15/13/9	18/16/12	17/15/12
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	>0.05	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		<1	<1	0
Boron	ppm	ASTM D5185m		1	0	0
Barium	ppm	ASTM D5185m	90	0	7	3
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	0	9	15
Calcium	ppm	ASTM D5185m	2	0	4	0
Phosphorus	ppm	ASTM D5185m		0	11	<1
Zinc	ppm	ASTM D5185m		0	3	1
Sulfur	ppm	ASTM D5185m		16471	19980	18653
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.42	0.40	0.40
Visc @ 40°C	cSt	ASTM D445	46	45.7	50.2	45.35



Certificate L2367

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

Sample No. : APC0000448

Lab Number : 06210141

Unique Number : 11083005

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

Received : 14 Jun 2024

Tested : 18 Jun 2024

Diagnosed : 18 Jun 2024 - Angela Borella

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)