



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SAP-349151-SYMRISE
Machine Id
KAESER 1129 - SYMRISE
Component
Compressor
Fluid
KAESER SIGMA (OEM) S-460 (35 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC0000640	APC0000633	APC0000632
Sample Date		Client Info		24 Jun 2024	25 Mar 2024	06 Dec 2023
Machine Age	hrs	Client Info		82400	80223	77613
Oil Age	hrs	Client Info		4300	900	8400
Filter Age	hrs	Client Info		3000	900	1600
Oil Changed		Client Info		Not Chngd	Not Chngd	Not Chngd
Filter Changed		Client Info		Changed	Not Chngd	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	1	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m	>50	6	2	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

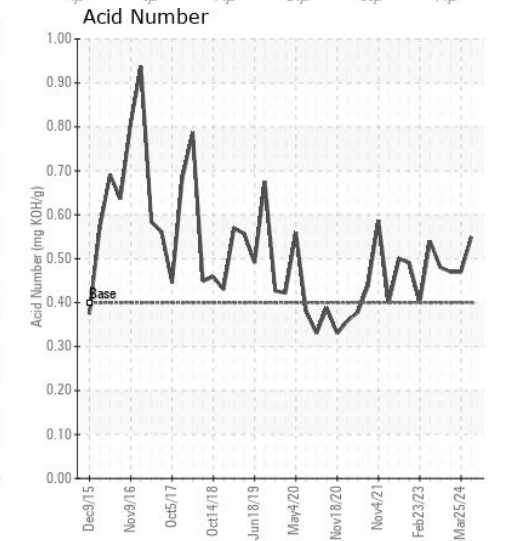
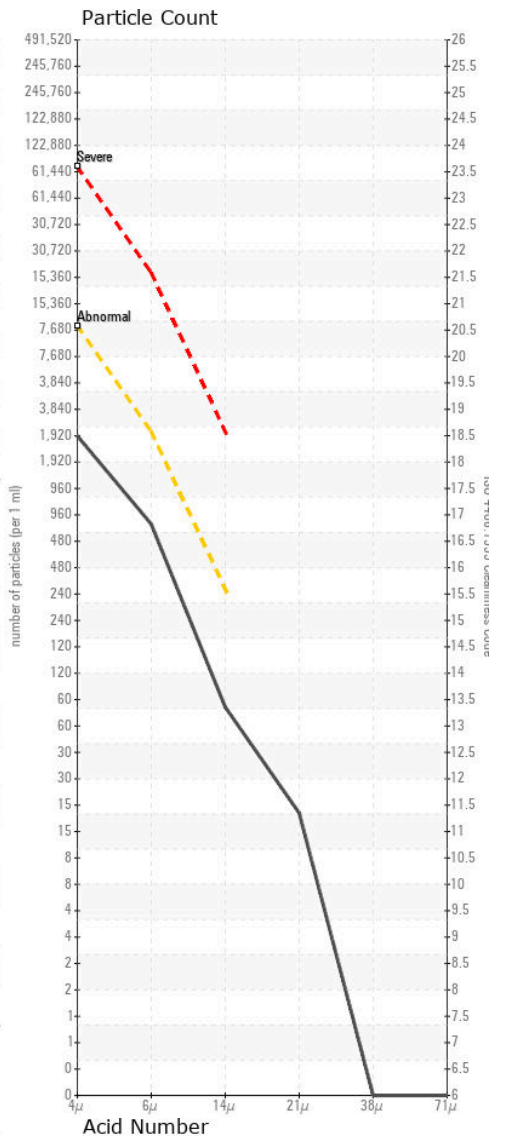
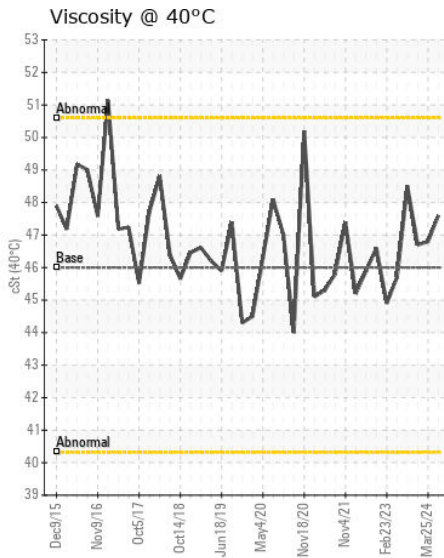
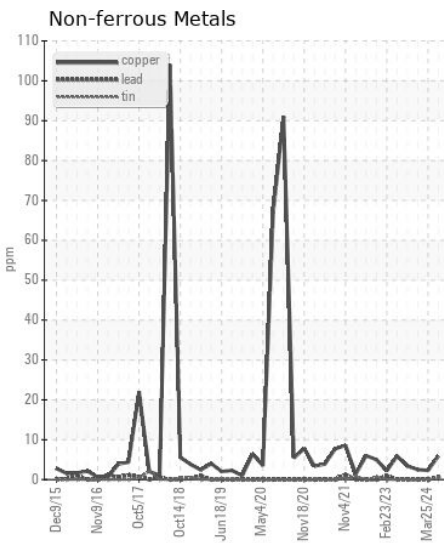
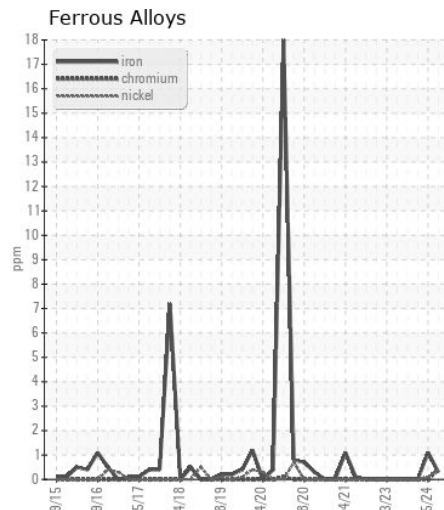
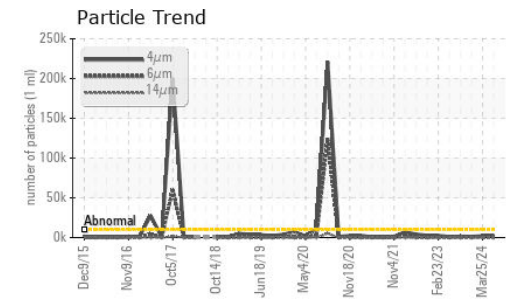
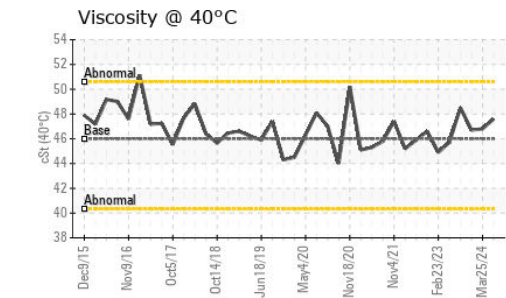
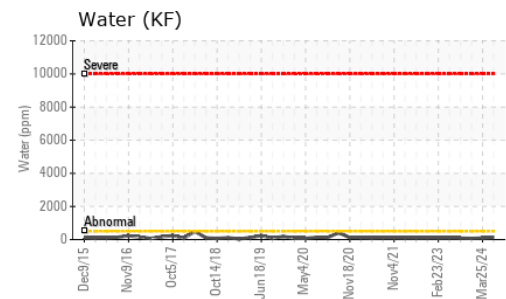
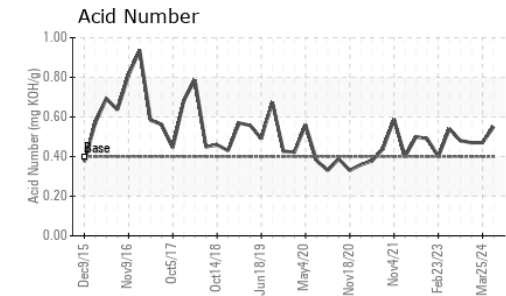
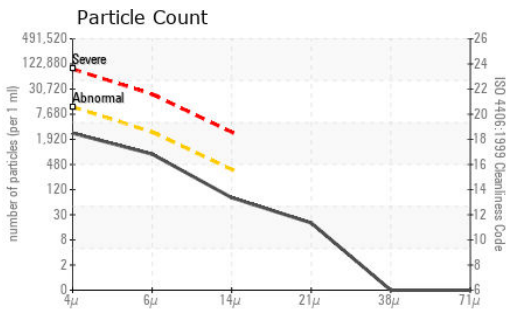
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	<1
Water	%	ASTM D6304	>0.05	0.012	0.008	0.007
ppm Water	ppm	ASTM D6304	>500	121	89	70
Particles >4µm		ASTM D7647	>10000	2362	2072	1421
Particles >6µm		ASTM D7647	>2500	745	672	403
Particles >14µm		ASTM D7647	>320	68	75	32
Particles >21µm		ASTM D7647	>80	17	22	8
Particles >38µm		ASTM D7647	>20	0	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/17/13	18/17/13	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	>0.05	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		0	1	2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	13	0	2
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	90	12	0	5
Calcium	ppm	ASTM D5185m	2	2	80	<1
Phosphorus	ppm	ASTM D5185m		4	19	2
Zinc	ppm	ASTM D5185m		3	17	0
Sulfur	ppm	ASTM D5185m		15524	19160	10358
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.55	0.47	0.47
Visc @ 40°C	cSt	ASTM D445	46	47.6	46.8	46.7



Certificate L2367

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

Sample No. : APC0000640

Lab Number : 06223489

Unique Number : 11101686

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

Received : 28 Jun 2024

Tested : 01 Jul 2024

Diagnosed : 01 Jul 2024 - Jonathan Hester

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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