



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SAP-11235029 - SUPER PUFFT
 Machine Id
KAESER 1136
 Component
Compressor
 Fluid
KAESER SIGMA (OEM) FG-460 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC0001270	APC0000328	APC0000329
Sample Date		Client Info		06 May 2024	07 Nov 2023	31 Jul 2023
Machine Age	hrs	Client Info		23031	18733	16541
Oil Age	hrs	Client Info		2100	1500	2000
Filter Age	hrs	Client Info		2100	1500	2000
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ATTENTION	ABNORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

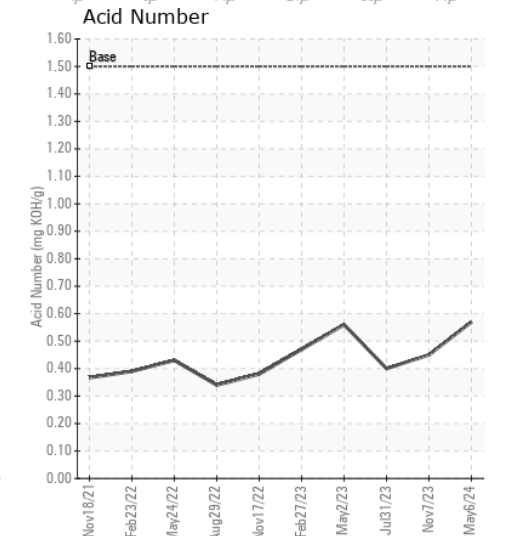
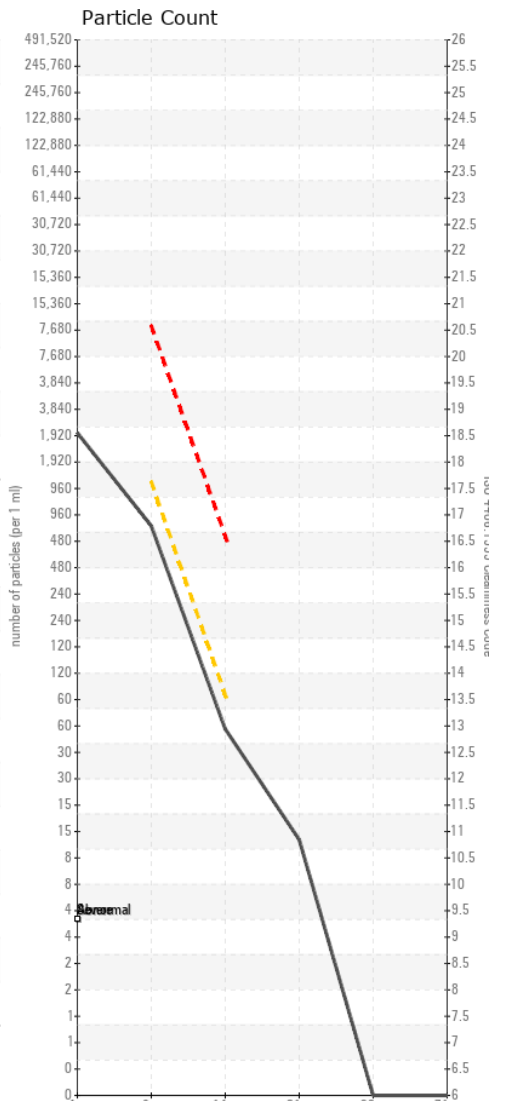
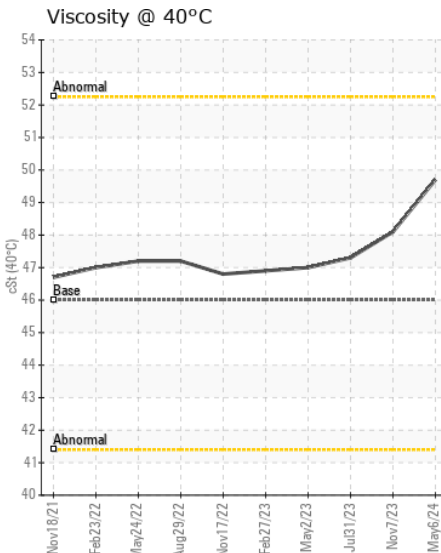
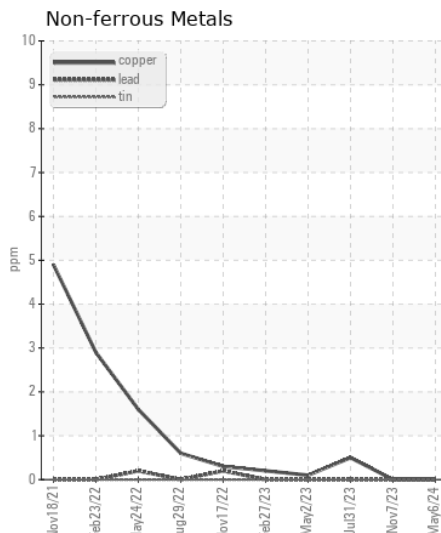
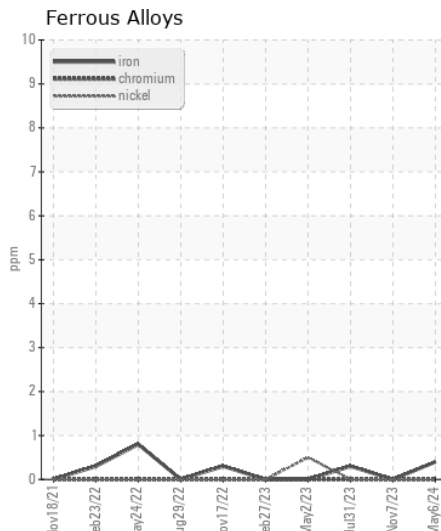
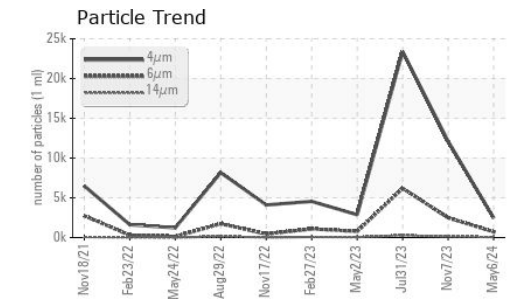
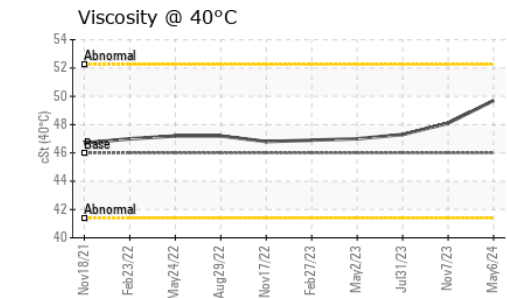
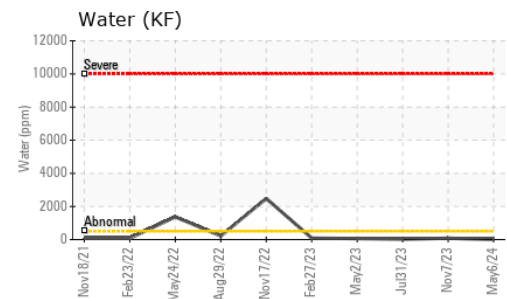
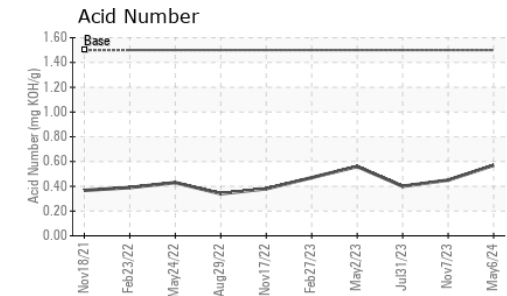
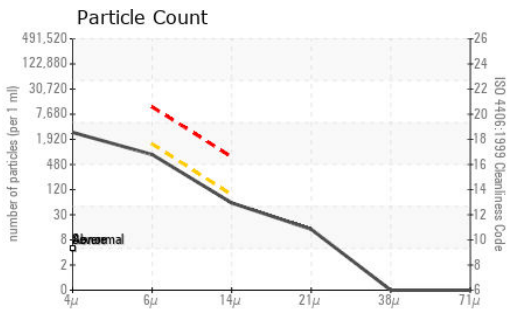
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Silicon	ppm	ASTM D5185m	>25	0	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.05	0.001	0.008	0.002
ppm Water	ppm	ASTM D6304	>500	3	83.7	21.6
Particles >4µm		ASTM D7647		2462	12111	23376
Particles >6µm		ASTM D7647	>1300	728	2489	6199
Particles >14µm		ASTM D7647	>80	51	128	272
Particles >21µm		ASTM D7647	>20	12	30	62
Particles >38µm		ASTM D7647	>4	0	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	~-/17/13	18/17/13	21/18/14	22/20/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
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		0	0	0
Barium	ppm	ASTM D5185m		12	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	1
Calcium	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m	500	39	52	16
Zinc	ppm	ASTM D5185m		0	3	0
Sulfur	ppm	ASTM D5185m		1210	1403	1520
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	0.57	0.45	0.40
Visc @ 40°C	cSt	ASTM D445	46	49.7	48.1	47.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : APC0001270 **Received** : 10 May 2024
Lab Number : 06176088 **Tested** : 14 May 2024
Unique Number : 11022141 **Diagnosed** : 14 May 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AIR PRODUCTS AND CHEMICALS INC - ALLENTOWN
 7201 HAMILTON BLVD
 ALLENTOWN, PA
 US 18195
 Contact: MICHAEL PROTZEK
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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)