



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Area
SAP-317149 BEKAERT CORP [2010365606]

Machine Id
KAESER Kaeser - 5293397 (S/N 1161)

Component
Compressor

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

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		APC06084312	APC05734190	APC05597542
Sample Date		Client Info		28 Dec 2023	05 Jan 2023	06 Jul 2022
Machine Age	hrs	Client Info		63226	55607	57770
Oil Age	hrs	Client Info		1444	1603	7400
Filter Age	hrs	Client Info		1444	1603	2853
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL

WEAR

All component wear rates are normal.

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

CONTAMINATION

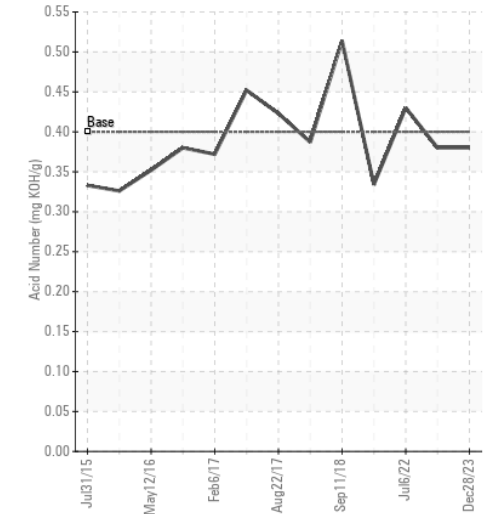
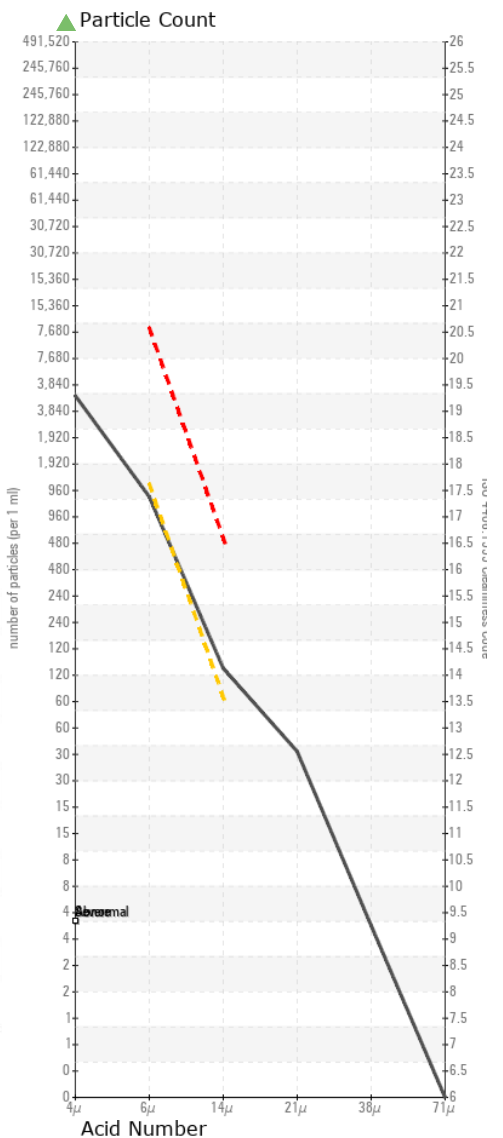
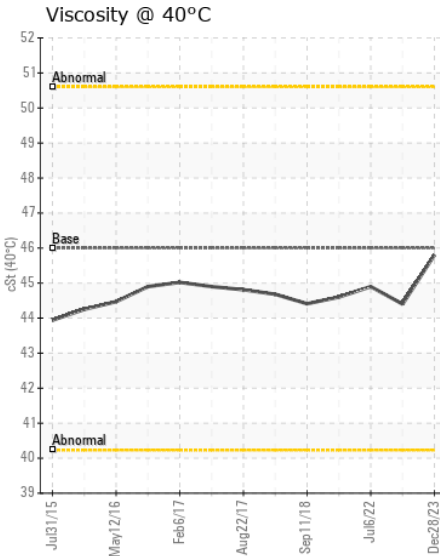
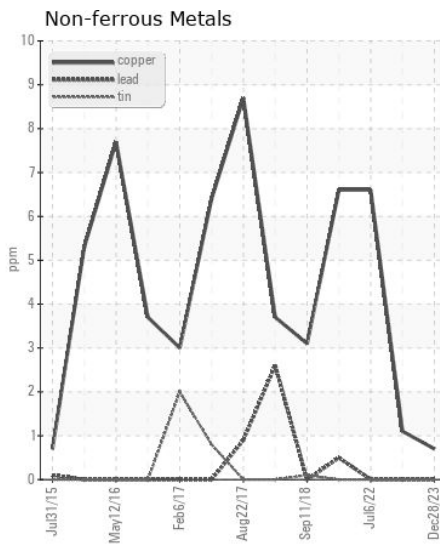
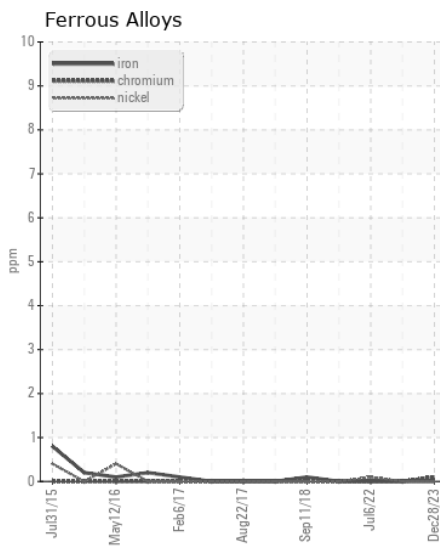
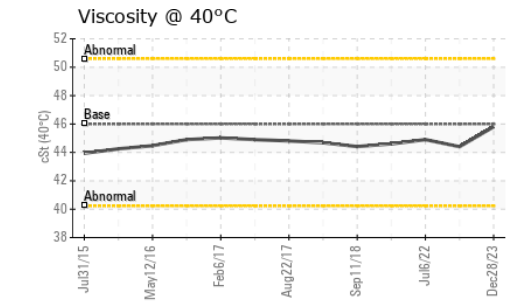
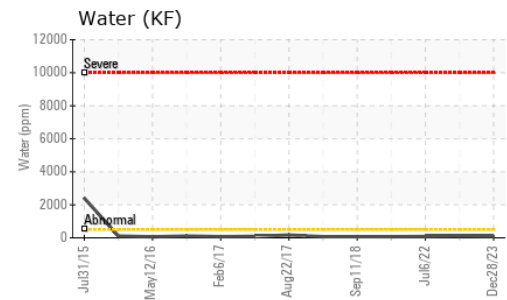
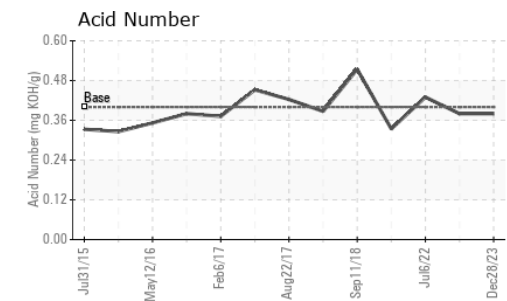
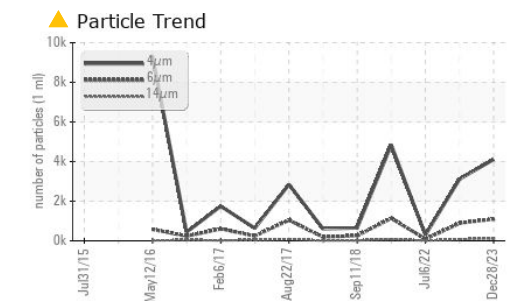
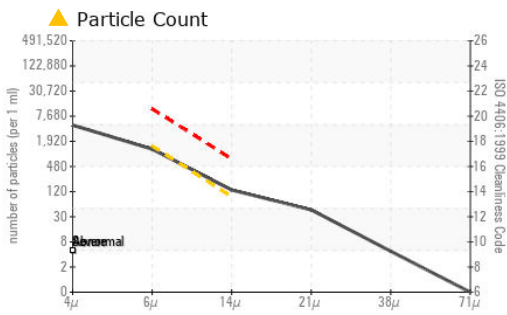
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>25	0	<1	1
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.008	0.011	0.008
ppm Water	ppm	ASTM D6304	>500	82	111.9	81.8
Particles >4µm		ASTM D7647		4106	3111	293
Particles >6µm		ASTM D7647	>1300	1096	890	90
Particles >14µm		ASTM D7647	>80	▲ 116	78	9
Particles >21µm		ASTM D7647	>20	▲ 39	20	3
Particles >38µm		ASTM D7647	>4	4	1	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/17/13	▲ 19/17/14	19/17/13	15/14/10
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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		2	2	<1
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	19	12	0
Calcium	ppm	ASTM D5185m	2	1	0	0
Phosphorus	ppm	ASTM D5185m		4	3	55
Zinc	ppm	ASTM D5185m		1	0	0
Sulfur	ppm	ASTM D5185m		16634	20835	17115
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.38	0.38	0.43
Visc @ 40°C	cSt	ASTM D445	46	45.8	44.4	44.9



Certificate L2367

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

Sample No. : APC06084312

Lab Number : 06084312

Unique Number : 10871757

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

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)

Received : 08 Feb 2024

Tested : 09 Feb 2024

Diagnosed : 12 Feb 2024 - Don Baldrige

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