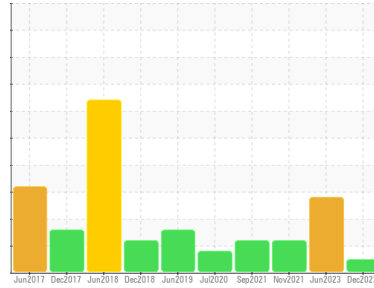




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
KAESER BS 51 4592594 (S/N 410793)

Component
Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	KCPA011880	KCPA002099	KCP43711	
Sample Date	Client Info	19 Dec 2023	26 Jun 2023	11 Nov 2021	
Machine Age	hrs	Client Info	76043	75903	74869
Oil Age	hrs	Client Info	0	0	313
Oil Changed	Client Info	N/A	N/A	Changed	
Sample Status		NORMAL	ABNORMAL	ABNORMAL	

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	0	0	<1
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >3	0	<1	0
Titanium	ppm	ASTM D5185m >3	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >10	0	<1	<1
Lead	ppm	ASTM D5185m >10	0	0	0
Copper	ppm	ASTM D5185m >50	<1	3	<1
Tin	ppm	ASTM D5185m >10	0	0	<1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	17
Barium	ppm	ASTM D5185m 90	5	47	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m 90	68	59	85
Calcium	ppm	ASTM D5185m 2	0	2	<1
Phosphorus	ppm	ASTM D5185m	0	2	0
Zinc	ppm	ASTM D5185m	11	15	17
Sulfur	ppm	ASTM D5185m	17650	23082	16073

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	0	0	0
Sodium	ppm	ASTM D5185m	16	13	24
Potassium	ppm	ASTM D5185m >20	<1	2	3
Water	%	ASTM D6304 >0.05	0.016	▲ 0.166	0.030
ppm Water	ppm	ASTM D6304 >500	169	▲ 1660	301.3

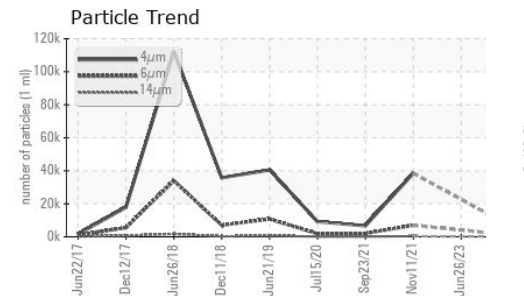
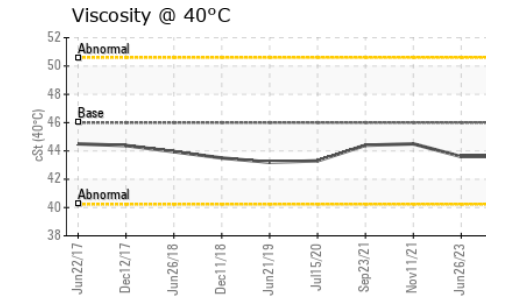
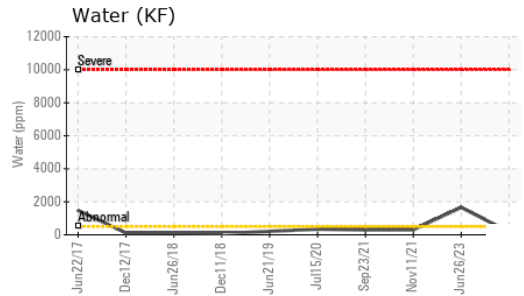
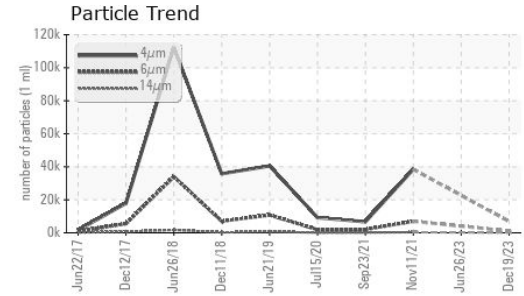
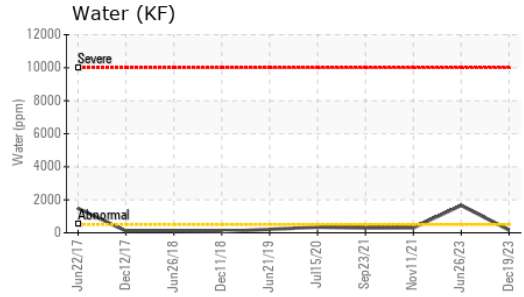
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	6873	---	38473
Particles >6µm	ASTM D7647 >1300	1070	---	▲ 6970
Particles >14µm	ASTM D7647 >80	59	---	▲ 378
Particles >21µm	ASTM D7647 >20	17	---	▲ 116
Particles >38µm	ASTM D7647 >4	1	---	5
Particles >71µm	ASTM D7647 >3	0	---	0
Oil Cleanliness	ISO 4406 (c) >17/13	17/13	---	▲ 20/16

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.38	0.35	0.347

OIL ANALYSIS REPORT

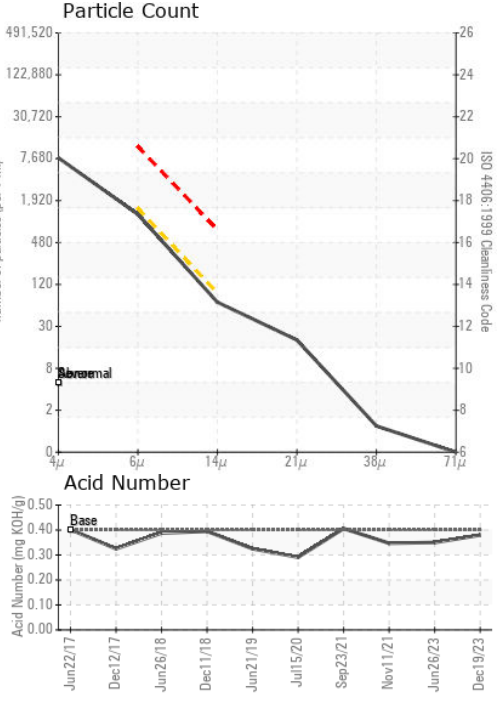
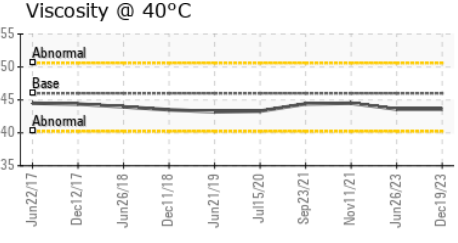
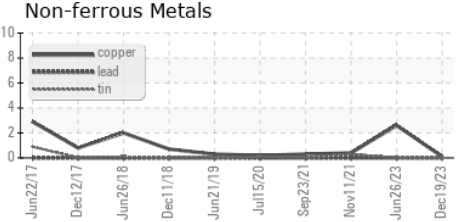
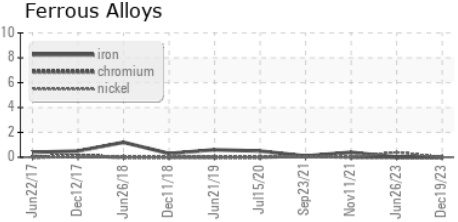


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	43.6	43.6	44.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA011880 **Recieved** : 30 Jan 2024
Lab Number : 06073904 **Diagnosed** : 31 Jan 2024
Unique Number : 10855995 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

POMPS TIRE
 1123 CEDAR ST
 GREEN BAY, WI
 US 54301
 Contact: R KORB
 RKORB@POMPSTIRE.COM
 T:
 F:

Certificate L2367
 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)