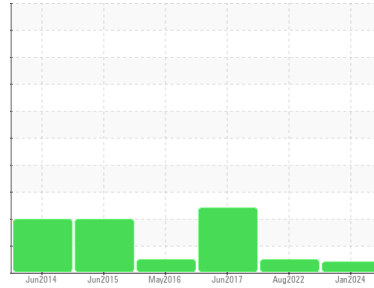




OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS



Machine Id
KAESER SK 19 1420360 (S/N 01810843)

Component
Compressor

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

High concentration of visible dirt/debris present 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	KCPA011514	KCP48132	KCP01311
Sample Date	Client Info	04 Jan 2024	16 Aug 2022	07 Jun 2017
Machine Age	hrs	30390	30010	27244
Oil Age	hrs	0	2000	1451
Oil Changed	Client Info	N/A	Not Changd	Changed
Sample Status		ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	<1
Barium	ppm	ASTM D5185m 90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 90	49	57	60
Calcium	ppm	ASTM D5185m 2	5	2	0
Phosphorus	ppm	ASTM D5185m	0	3	43
Zinc	ppm	ASTM D5185m	32	26	12
Sulfur	ppm	ASTM D5185m	18457	18965	21525

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	2	<1	<1
Sodium	ppm	ASTM D5185m	19	18	24
Potassium	ppm	ASTM D5185m >20	3	4	3
Water	%	ASTM D6304 >0.05	0.013	0.027	0.026
ppm Water	ppm	ASTM D6304 >500	139	271.3	260

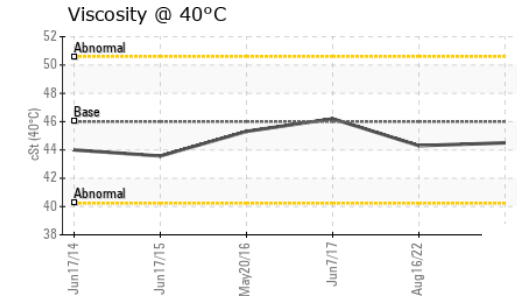
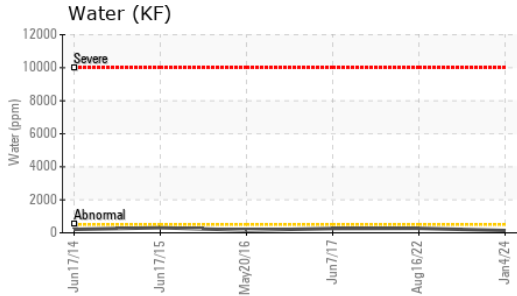
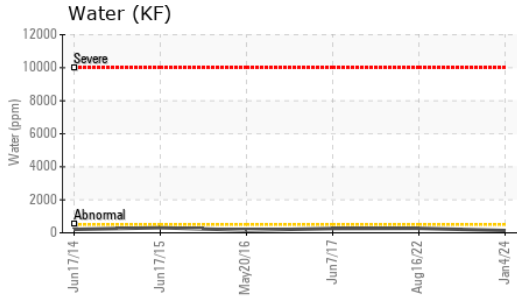
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	---	---	34180
Particles >6µm	ASTM D7647 >1300	---	---	▲ 13808
Particles >14µm	ASTM D7647 >80	---	---	▲ 3660
Particles >21µm	ASTM D7647 >20	---	---	▲ 1173
Particles >38µm	ASTM D7647 >4	---	---	▲ 104
Particles >71µm	ASTM D7647 >3	---	---	▲ 14
Oil Cleanliness	ISO 4406 (c) >--/17/13	---	---	▲ 21/19

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	0.35	0.36	0.372

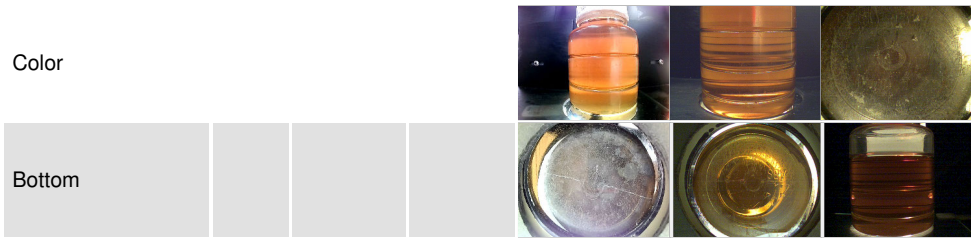
OIL ANALYSIS REPORT



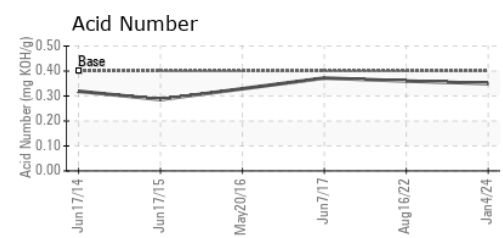
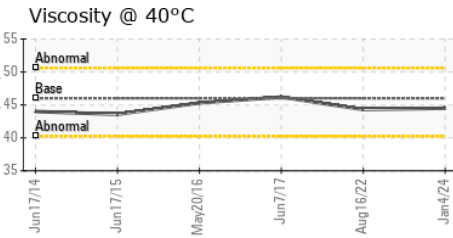
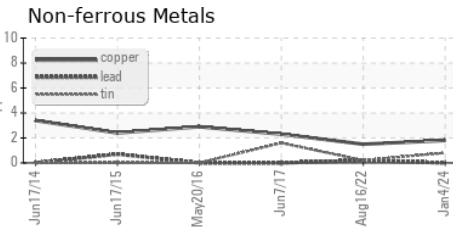
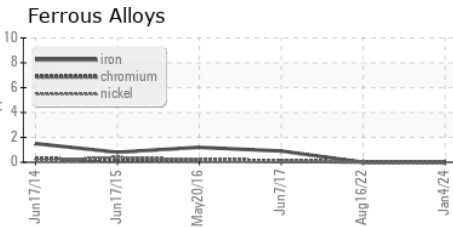
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	HEAVY	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	▲ HEAVY	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46	44.5	44.3	46.2

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA011514 **Recieved** : 18 Jan 2024
Lab Number : 06064355 **Diagnosed** : 19 Jan 2024
Unique Number : 10835737 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PrtCount)

ROSKO FASTNERS
 406 BELL CT
 WOODSTOCK, GA
 US 30188
 Contact:

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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