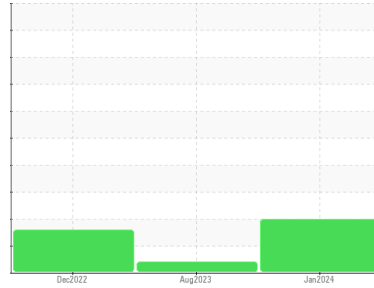




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
KAESER 8324442

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.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates 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	KC127592	KC05972912	KC106854
Sample Date	Client Info	04 Jan 2024	22 Aug 2023	27 Dec 2022
Machine Age	hrs	4562	3619	1919
Oil Age	hrs	0	0	1919
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	0	0	2
Chromium ppm	ASTM D5185m >10	0	0	<1
Nickel ppm	ASTM D5185m >3	0	0	<1
Titanium ppm	ASTM D5185m >3	0	0	0
Silver ppm	ASTM D5185m >2	0	0	<1
Aluminum ppm	ASTM D5185m >10	0	4	<1
Lead ppm	ASTM D5185m >10	0	0	1
Copper ppm	ASTM D5185m >50	6	3	4
Tin ppm	ASTM D5185m >10	0	0	<1
Vanadium ppm	ASTM D5185m	0	0	<1
Cadmium ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	0	0	0
Barium ppm	ASTM D5185m 90	<1	0	0
Molybdenum ppm	ASTM D5185m	0	0	<1
Manganese ppm	ASTM D5185m	<1	0	<1
Magnesium ppm	ASTM D5185m 90	36	50	58
Calcium ppm	ASTM D5185m 2	1	0	1
Phosphorus ppm	ASTM D5185m	0	<1	70
Zinc ppm	ASTM D5185m	5	0	6

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	0	0	3
Sodium ppm	ASTM D5185m	13	15	12
Potassium ppm	ASTM D5185m >20	0	1	8
Water %	ASTM D6304 >0.05	0.015	0.031	0.013
ppm Water	ASTM D6304 >500	153	312.1	138.6

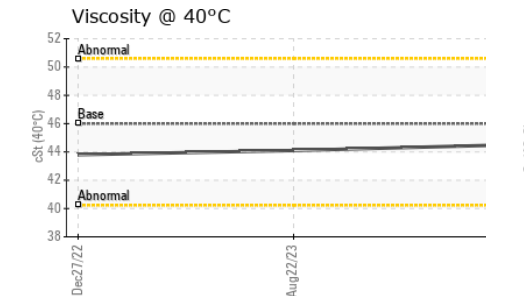
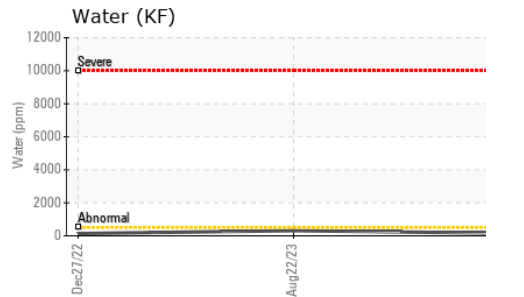
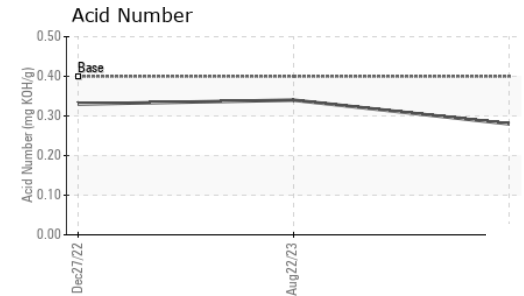
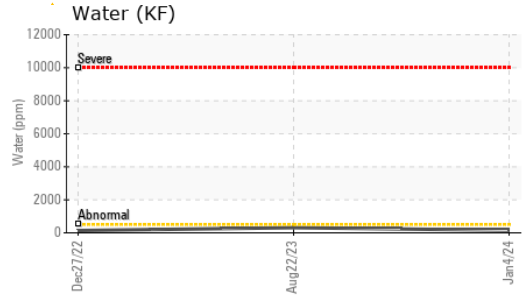
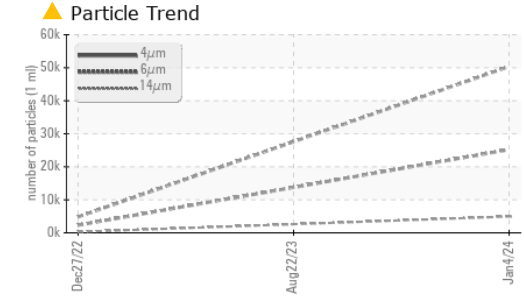
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	50363	---	4837
Particles >6µm	ASTM D7647 >1300	▲ 25208	---	▲ 2324
Particles >14µm	ASTM D7647 >80	▲ 4935	---	▲ 271
Particles >21µm	ASTM D7647 >20	▲ 1616	---	▲ 50
Particles >38µm	ASTM D7647 >4	▲ 54	---	1
Particles >71µm	ASTM D7647 >3	2	---	0
Oil Cleanliness	ISO 4406 (c) >--/17/13	▲ 23/22/19	---	▲ 19/18/15

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.4	0.28	0.34	0.33

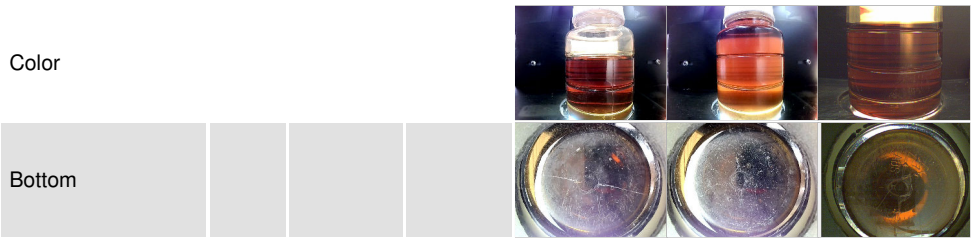
OIL ANALYSIS REPORT



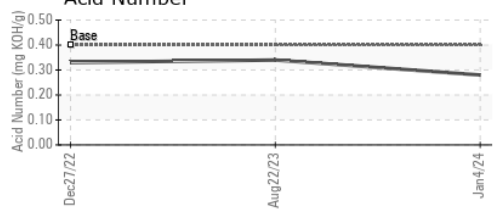
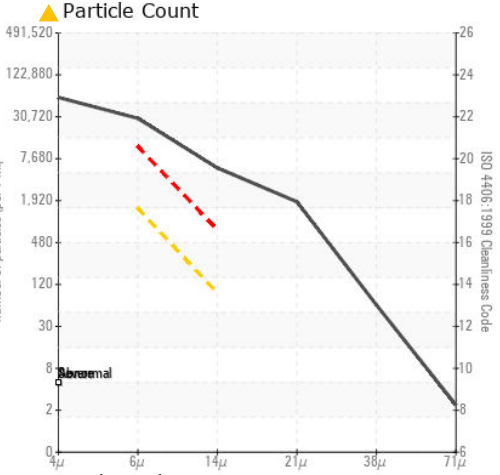
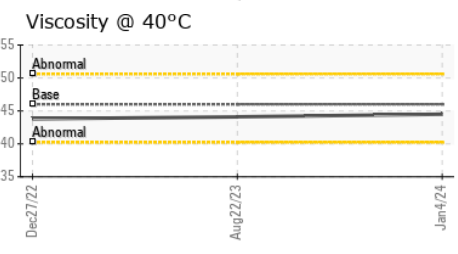
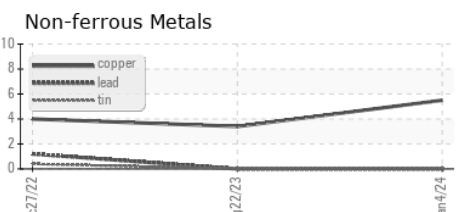
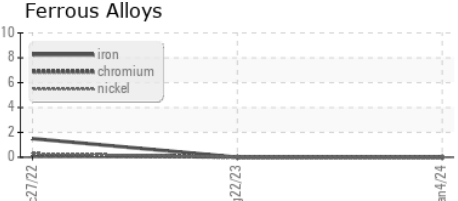
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.5	44.1	43.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KC127592 **Received** : 19 Jan 2024
Lab Number : 06065627 **Diagnosed** : 22 Jan 2024
Unique Number : 10837009 **Diagnostician** : Don Baldrige
Test Package : IND 2

PARKWAY TOYOTA
 50 SYLVAN AVE
 ENGLEWOOD CLIFFS, NJ
 US 07632
 Contact: Service Manager

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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