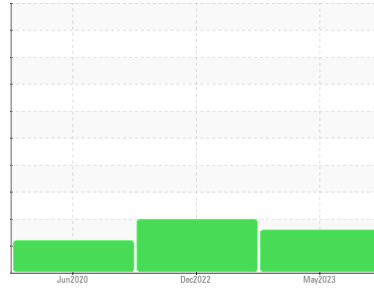




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
KAESER 6969709

Component
Compressor
Fluid
KAESER SIGMA (OEM) M-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			KCPA003952	KCP52282	KCP23063
Sample Date	Client Info			26 May 2023	02 Dec 2022	24 Jun 2020
Machine Age	hrs	Client Info		28106	24198	5248
Oil Age	hrs	Client Info		0	3000	5248
Oil Changed	Client Info			N/A	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	1	<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	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	3	0	11
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

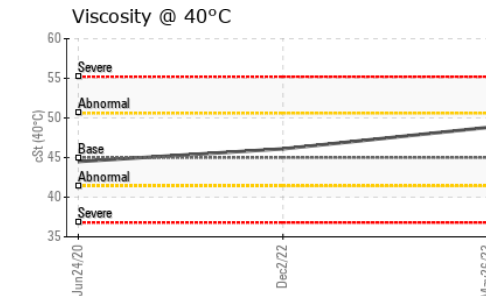
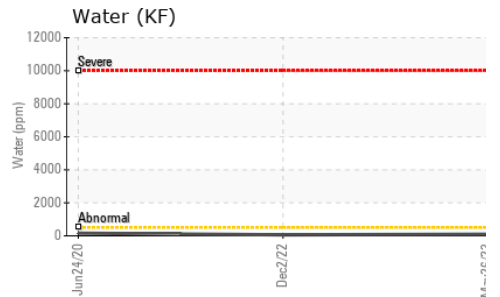
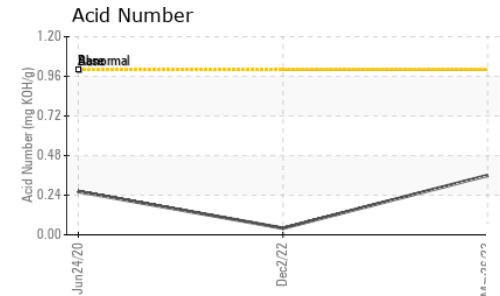
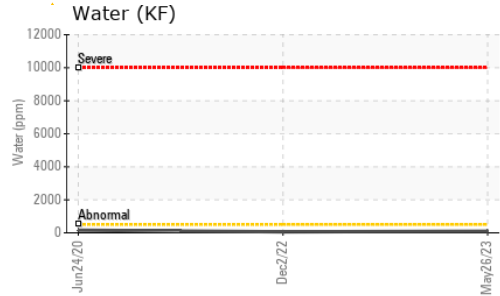
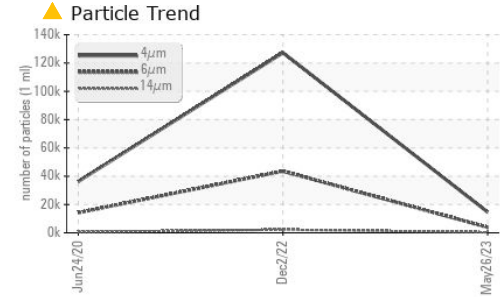
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	1
Barium	ppm	ASTM D5185m	90	1	0	<1
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	100	11	0	28
Calcium	ppm	ASTM D5185m	0	<1	0	2
Phosphorus	ppm	ASTM D5185m	0	19	119	7
Zinc	ppm	ASTM D5185m	0	4	0	1
Sulfur	ppm	ASTM D5185m	23500	19612	699	15784

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	5
Sodium	ppm	ASTM D5185m		3	0	15
Potassium	ppm	ASTM D5185m	>20	<1	0	9
Water	%	ASTM D6304	>0.05	0.009	0.005	0.016
ppm Water	ppm	ASTM D6304	>500	98.0	59.6	160.5

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		14664	127262	36336
Particles >6µm		ASTM D7647	>1300	▲ 3875	▲ 43579	▲ 14165
Particles >14µm		ASTM D7647	>80	▲ 348	▲ 2229	▲ 563
Particles >21µm		ASTM D7647	>20	▲ 49	▲ 459	▲ 62
Particles >38µm		ASTM D7647	>4	1	▲ 9	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ 21/19/16	▲ 24/23/18	▲ 21/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.36	0.04	0.262

OIL ANALYSIS REPORT



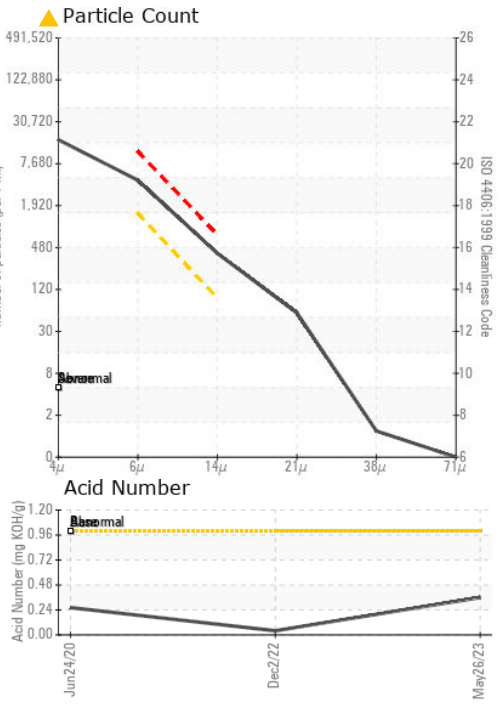
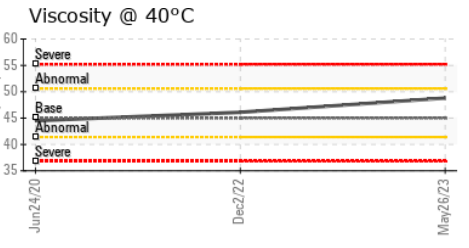
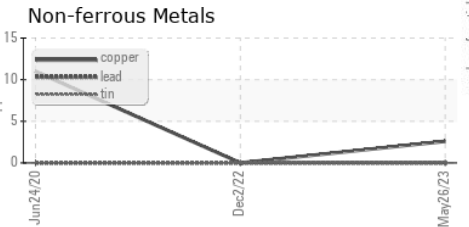
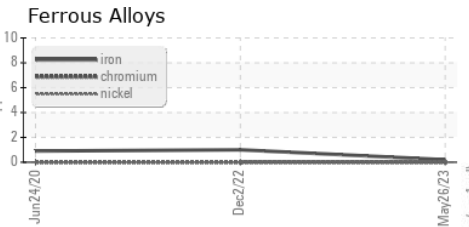
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	45	48.8	46.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA003952 **Received** : 12 Jun 2023
Lab Number : 05870982 **Tested** : 13 Jun 2023
Unique Number : 10510766 **Diagnosed** : 14 Jun 2023 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

PROPAK
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 KANSAS CITY, KS
 US 66106
 Contact: E. ROLLMAN
 erollman@propak.com
 T:
 F:

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)