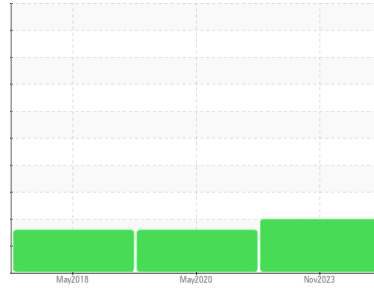


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**KAESER SK 26 1423148 (S/N 026703)**

Component  
**Compressor**

Fluid  
**KAESER SIGMA (OEM) M-460 (--- QTS)**

**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			<b>KCPA009143</b>	KCP23359	KCP09717
Sample Date	Client Info			<b>14 Nov 2023</b>	21 May 2020	14 May 2018
Machine Age	hrs	Client Info		<b>32508</b>	31803	31419
Oil Age	hrs	Client Info		<b>0</b>	2000	500
Oil Changed	Client Info			<b>N/A</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

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

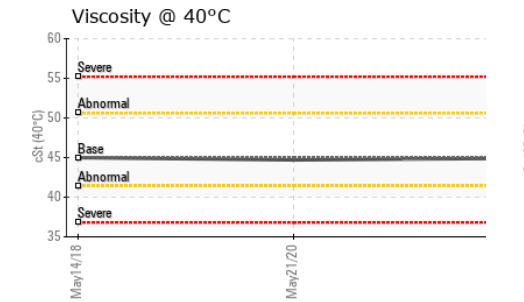
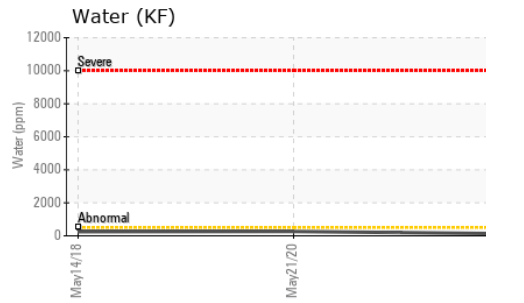
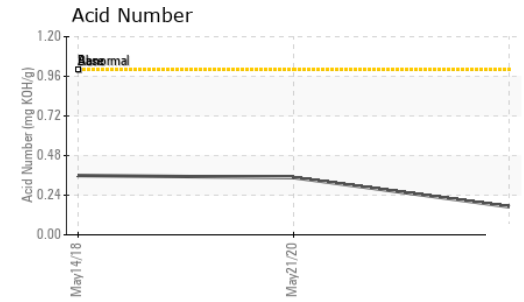
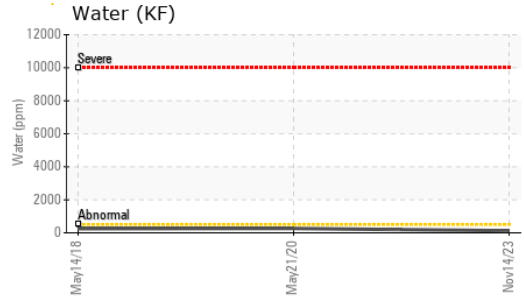
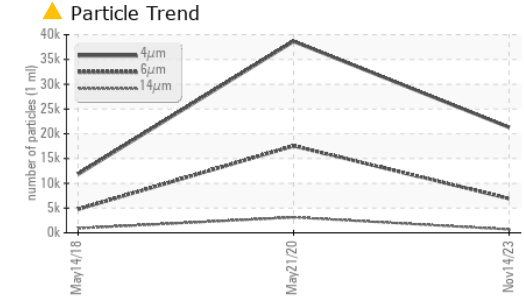
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Barium	ppm	ASTM D5185m	90	<b>0</b>	3	2
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m	100	<b>60</b>	79	70
Calcium	ppm	ASTM D5185m	0	<b>0</b>	<1	<1
Phosphorus	ppm	ASTM D5185m	0	<b>0</b>	2	5
Zinc	ppm	ASTM D5185m	0	<b>13</b>	25	30
Sulfur	ppm	ASTM D5185m	23500	<b>18616</b>	20443	12471

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	2	<1
Sodium	ppm	ASTM D5185m		<b>25</b>	32	27
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	4
Water	%	ASTM D6304	>0.05	<b>0.012</b>	0.026	0.025
ppm Water	ppm	ASTM D6304	>500	<b>128</b>	263.4	250

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>21282</b>	38646	11809
Particles >6µm		ASTM D7647	>1300	<b>▲ 6904</b>	▲ 17554	▲ 4764
Particles >14µm		ASTM D7647	>80	<b>▲ 684</b>	▲ 3134	▲ 912
Particles >21µm		ASTM D7647	>20	<b>▲ 191</b>	▲ 937	▲ 358
Particles >38µm		ASTM D7647	>4	<b>▲ 6</b>	▲ 24	▲ 40
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	4
Oil Cleanliness		ISO 4406 (c)	>--/17/13	<b>▲ 22/20/17</b>	▲ 21/19	▲ 19/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.17</b>	0.347	0.359

# OIL ANALYSIS REPORT

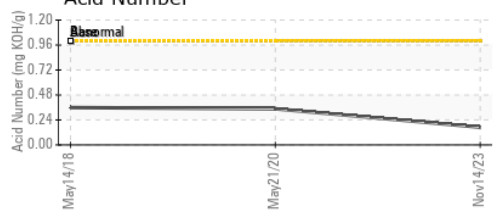
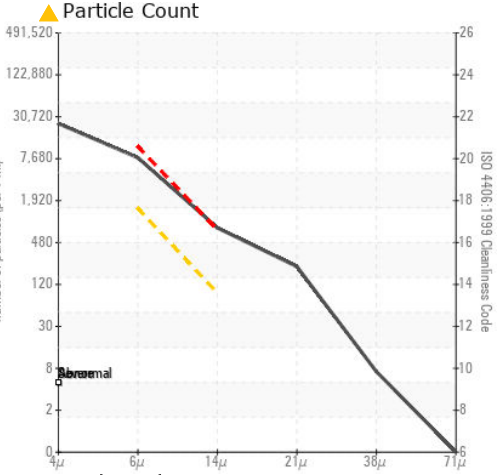
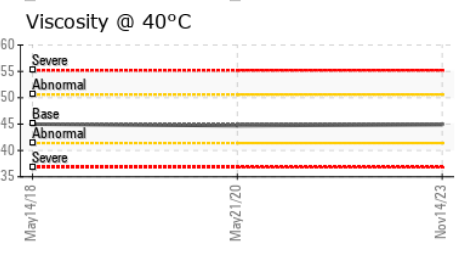
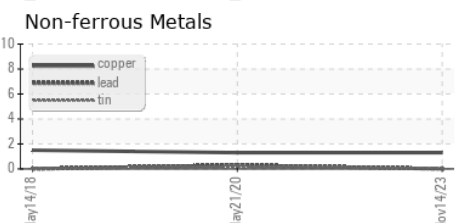
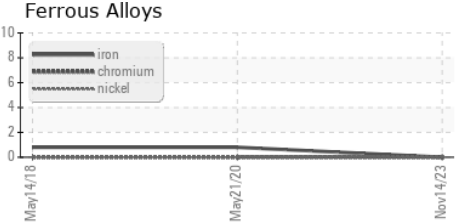


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.9	44.7	44.99

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA009143 **Received** : 30 Jan 2024  
**Lab Number** : 06073913 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856004 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**EAGLE FUEL CELLS**  
 853 ADAMS RD  
 EAGLE RIVER, WI  
 US 54521  
 Contact: JIM  
 JIM@EMCCUSTOMSHOP.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)