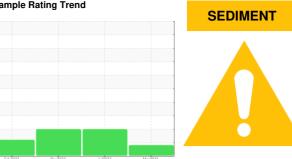


## **OIL ANALYSIS REPORT**

Sample Rating Trend



# KAESER 5104270

Component

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

#### **DIAGNOSIS**

#### Recommendation

No corrective action is recommended at this time. Oil and 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

There is a moderate amount of visible silt present in the sample.

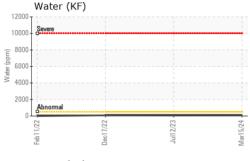
#### **Fluid Condition**

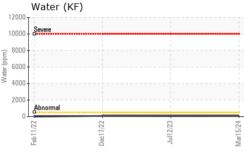
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

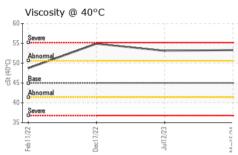
		Feb 202	2 Dec2022	Jul2023 Ma	ar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015726	KCPA004571	KCP52669
Sample Date		Client Info		15 Mar 2024	12 Jul 2023	17 Dec 2022
Machine Age	hrs	Client Info		17541	12512	9451
Oil Age	hrs	Client Info		5029	0	6412
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	2	0
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	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	13	18	11
Tin	ppm	ASTM D5185m	>10	0	0	<1
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	0
Barium	ppm	ASTM D5185m	90	0	1	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	100	0	6	0
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	16	45
Zinc	ppm	ASTM D5185m	0	2	20	0
Sulfur	ppm	ASTM D5185m	23500	20789	21553	17469
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		2	1	<1
Potassium	ppm	ASTM D5185m	>20	0	2	0
Water	%	ASTM D6304	>0.05	0.009	0.011	0.008
ppm Water	ppm	ASTM D6304	>500	90	112.8	80.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			138246	41170
Particles >6µm		ASTM D7647	>1300		<u>42668</u>	<u>15978</u>
Particles >14μm		ASTM D7647	>80		<u>▲</u> 1242	<b>△</b> 2002
Particles >21µm		ASTM D7647	>20		<u>\$\times\$ 235</u>	<u></u> ▲ 518
Particles >38μm		ASTM D7647	>4		<u> 5</u>	<u> 5</u>
Particles >71μm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		<b>4</b> 24/23/17	<u>\$\text{\scale}\$ 23/21/18</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.47	0.37	0.40

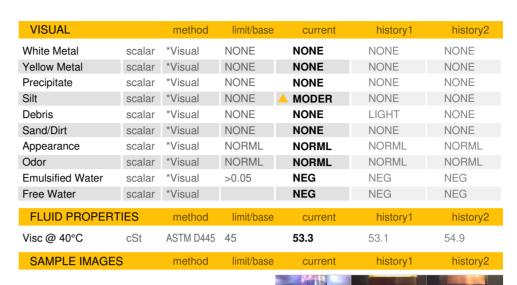


### **OIL ANALYSIS REPORT**





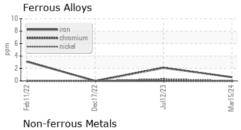


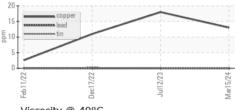


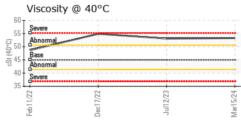


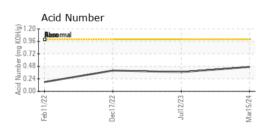
Color

**Bottom** 













Laboratory Sample No. Lab Number Unique Number: 10950107

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA015726

Received : 06130642

: 27 Mar 2024 **Tested** Diagnosed

: 30 Mar 2024

: 30 Mar 2024 - Don Baldridge

WASKOM, TX US 75692

Contact: Service Manager

**PROGRESS RAIL SERVICES** 

830 E TEXAS AVE

Test Package: IND 2 (Additional Tests: KF, PrtCount) 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)

T: F: