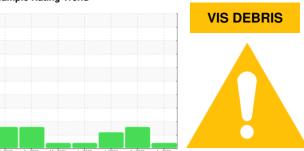


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# KAESER AS 30 6533898 (S/N 1214)

Compressor

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. 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

Moderate concentration of visible dirt/debris present in the oil.

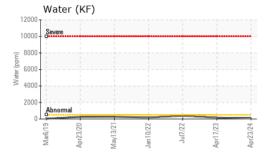
## **Fluid Condition**

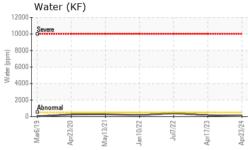
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

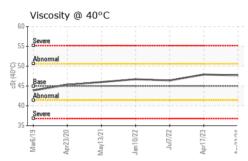
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017195	KCP53023	KCP49614
Sample Date		Client Info		23 Apr 2024	17 Apr 2023	07 Jul 2022
Machine Age	hrs	Client Info		9482	8156	6632
Oil Age	hrs	Client Info		1300	1500	1000
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
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	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	11	8	2
Tin	ppm	ASTM D5185m	>10	0	0	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	2	0	17
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	19	33	71
Calcium	ppm	ASTM D5185m	0	0	<1	1
Phosphorus	ppm	ASTM D5185m	0	<1	4	12
Zinc	ppm	ASTM D5185m	0	38	27	12
Sulfur	ppm	ASTM D5185m	23500	23122	19383	23149
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	<1
Sodium	ppm	ASTM D5185m		16	13	21
Potassium	ppm	ASTM D5185m	>20	3	2	2
Water	%	ASTM D6304	>0.05	800.0	0.015	0.037
ppm Water	ppm	ASTM D6304	>500	87	158.4	379.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647			49626	8214
Particles >6µm		ASTM D7647	>1300		<u>22228</u>	<b>△</b> 3390
Particles >14μm		ASTM D7647	>80		<u></u> 1610	<u>129</u>
Particles >21µm		ASTM D7647	>20		<u>^</u> 268	15
Particles >38μm		ASTM D7647	>4		2	1
Particles >71μm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13		<u>\$\text{\square}\$ 23/22/18</u>	<b>2</b> 0/19/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



# **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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	▲ MODER	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	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	45	47.7	47.9	46.4

SAMPLE IMAGES

method

limit/base

current

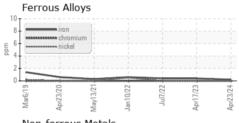
history1 history2

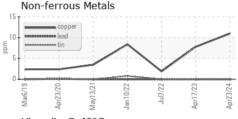
**Bottom** 

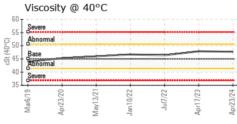


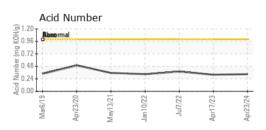
#### **GRAPHS**

Color













Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA017195 Lab Number : 06160938

Unique Number : 10996361

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

Received **Tested** Diagnosed

: 25 Apr 2024 : 29 Apr 2024

: 29 Apr 2024 - Don Baldridge

FREIGHTLINER TRUCK CENTERS 2100 FORMOSA RD

> US 62294 Contact: T. BERGMAN tbergman@truckcentersinc.com

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)

TROY, IL

T:

F: