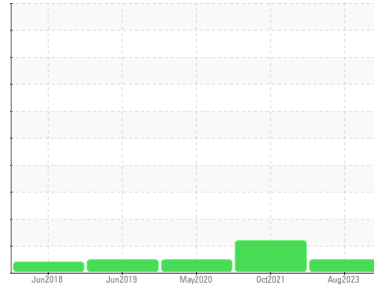




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER CSD 75 5853759 (S/N 1319)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-460 (--- QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

### 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>KCPA002322</b>	KCP36142	KCP25097
Sample Date	Client Info		<b>05 Aug 2023</b>	23 Oct 2021	28 May 2020
Machine Age	hrs	Client Info	<b>20836</b>	14883	8739
Oil Age	hrs	Client Info	<b>20129</b>	2940	2800
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	2
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
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>10</b>	8	<1
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	2
Barium	ppm	ASTM D5185m 90	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m 90	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	<1
Phosphorus	ppm	ASTM D5185m	<b>0</b>	10	<1
Zinc	ppm	ASTM D5185m	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>20456</b>	14734	41

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	0
Sodium	ppm	ASTM D5185m	<b>1</b>	0	26
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	1
Water	%	ASTM D6304 >0.05	<b>0.008</b>	0.009	0.005
ppm Water	ppm	ASTM D6304 >500	<b>89.1</b>	97.1	52.4

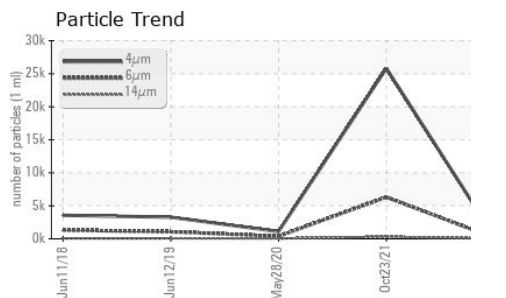
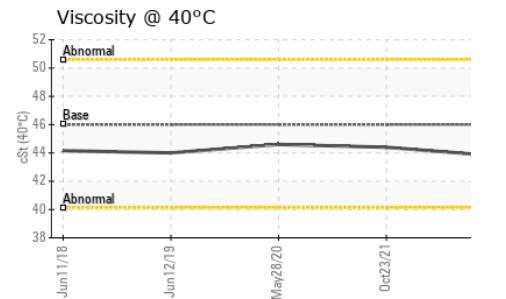
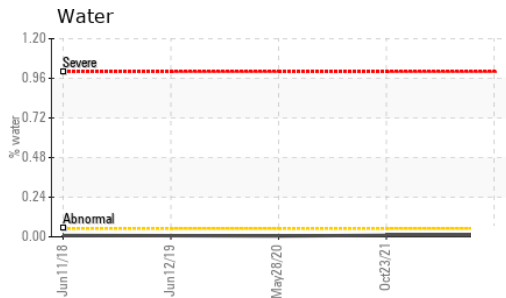
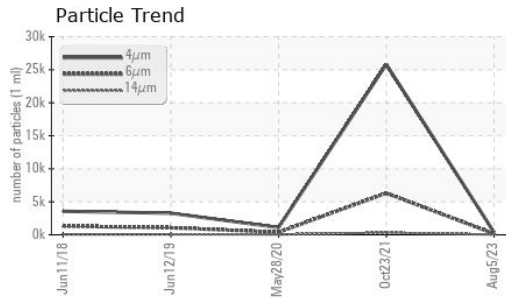
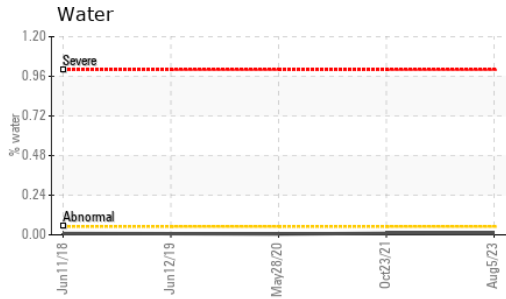
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>390</b>	25810	1103
Particles >6µm	ASTM D7647 >1300		<b>168</b>	▲ 6312	394
Particles >14µm	ASTM D7647 >80		<b>29</b>	▲ 318	45
Particles >21µm	ASTM D7647 >20		<b>9</b>	▲ 38	12
Particles >38µm	ASTM D7647 >4		<b>1</b>	1	0
Particles >71µm	ASTM D7647 >3		<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>16/15/12</b>	▲ 20/15	16/13

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.44</b>	0.411	0.366

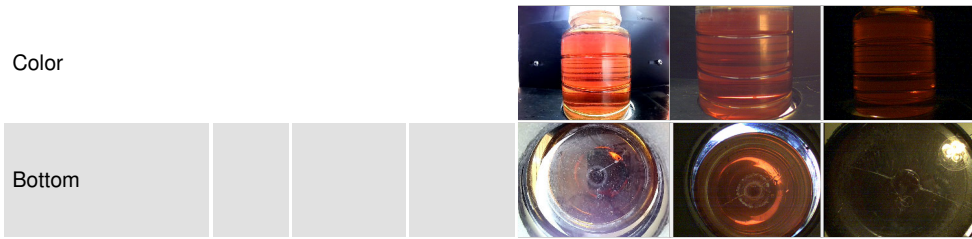
# OIL ANALYSIS REPORT



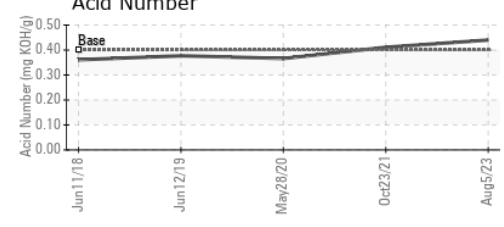
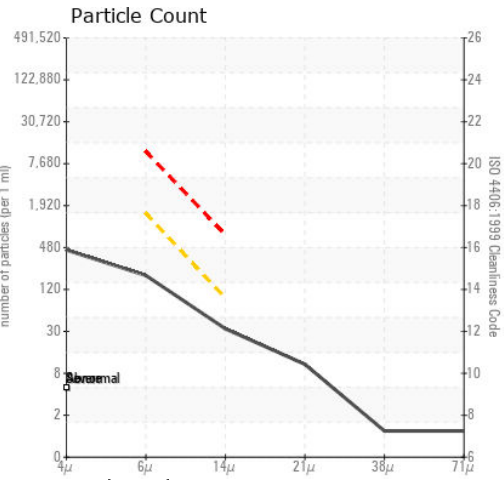
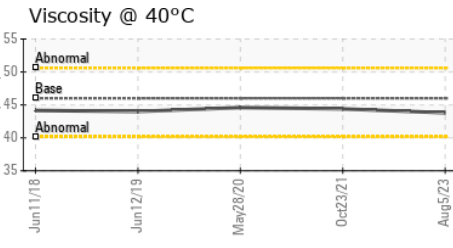
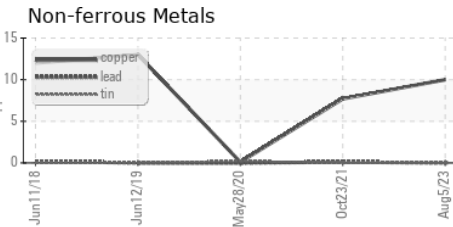
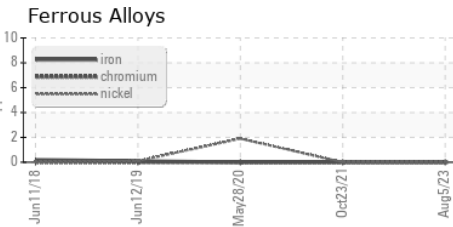
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	<b>43.8</b>	44.4	44.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA002322 **Received** : 21 Aug 2023  
**Lab Number** : 05930350 **Diagnosed** : 23 Aug 2023  
**Unique Number** : 10615621 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**B & W TRAILER HITCHES**  
 1216 HAWAII RD  
 HUMBOLDT, KS  
 US 66748  
 Contact: MICHAEL SPRAGUE  
 michaelSprague@turnoverball.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)