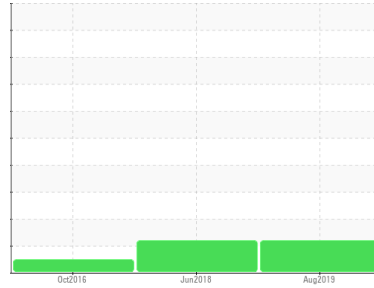




# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**KAESER BSD 50 5667465 (S/N 1569)**

Component  
**Compressor**  
Fluid  
**KAESER SIGMA (OEM) S-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.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate 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>KC83987</b>	KC76831	KC52794
Sample Date	Client Info		<b>22 Aug 2019</b>	11 Jun 2018	14 Oct 2016
Machine Age	hrs	Client Info	<b>22171</b>	14120	3214
Oil Age	hrs	Client Info	<b>6673</b>	4938	3214
Oil Changed	Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status			<b>ATTENTION</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	<1	<1
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	5
Lead	ppm	ASTM D5185m >10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>6</b>	2	16
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m	<b>&lt;1</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	<b>&lt;1</b>	0	<1
Barium	ppm	ASTM D5185m 90	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 90	<b>1</b>	0	6
Calcium	ppm	ASTM D5185m 2	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>11</b>	56	45
Zinc	ppm	ASTM D5185m	<b>2</b>	0	31

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	2	1
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	6
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	6
Water	%	ASTM D6304 >0.05	<b>0.009</b>	0.009	0.013
ppm Water	ppm	ASTM D6304 >500	<b>91.7</b>	90	130

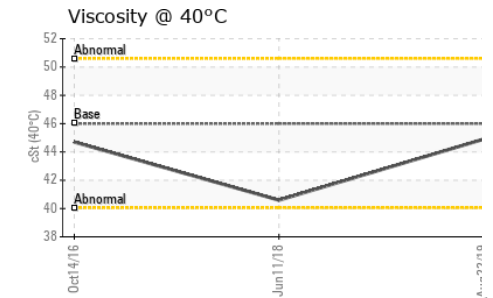
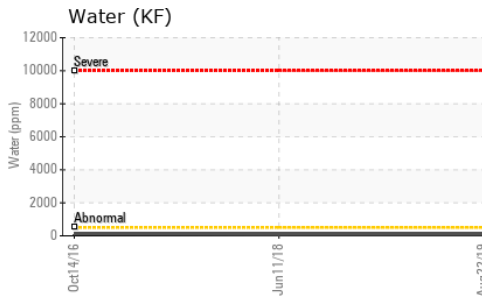
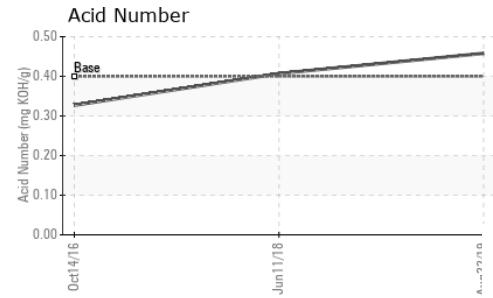
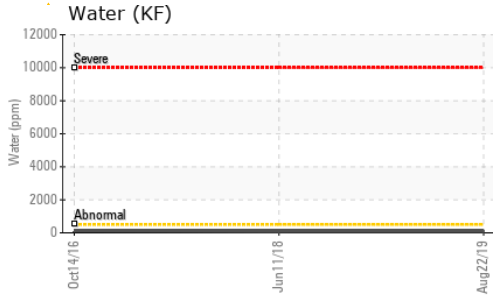
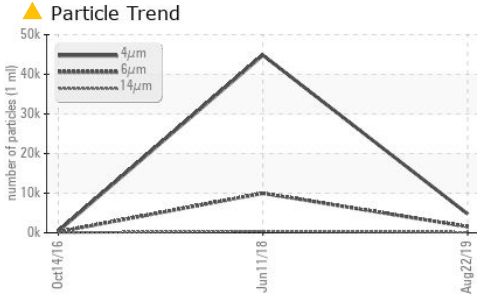
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>4759</b>	44826	410
Particles >6µm	ASTM D7647 >1300		<b>▲ 1523</b>	▲ 9975	223
Particles >14µm	ASTM D7647 >80		<b>▲ 133</b>	▲ 380	38
Particles >21µm	ASTM D7647 >20		<b>▲ 26</b>	▲ 75	12
Particles >38µm	ASTM D7647 >4		<b>3</b>	0	1
Particles >71µm	ASTM D7647 >3		<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c) >17/13		<b>▲ 18/14</b>	▲ 20/16	15/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.4	<b>0.458</b>	0.407	0.327

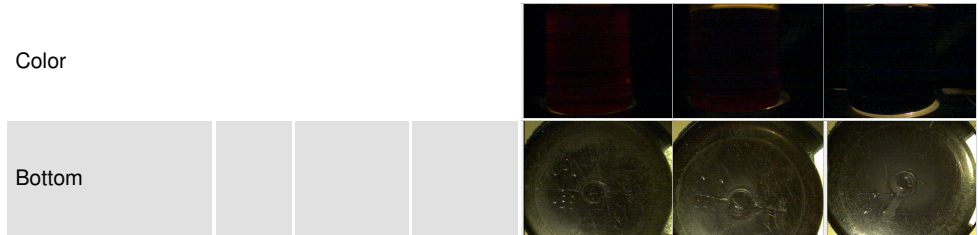
# OIL ANALYSIS REPORT



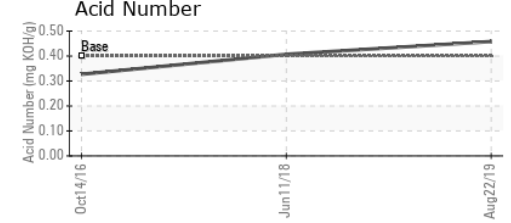
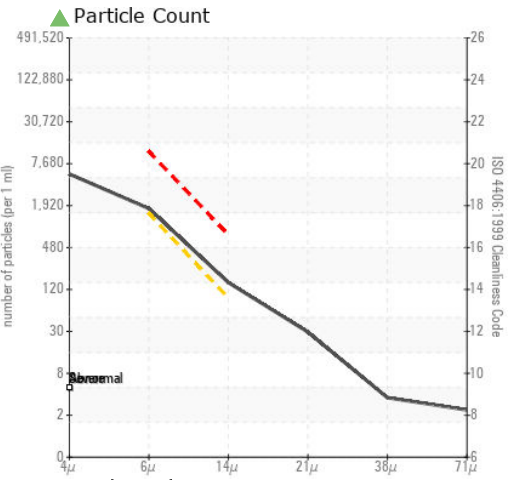
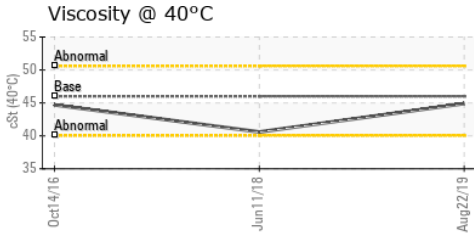
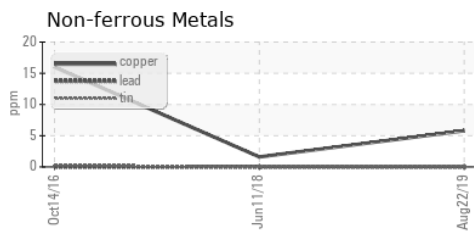
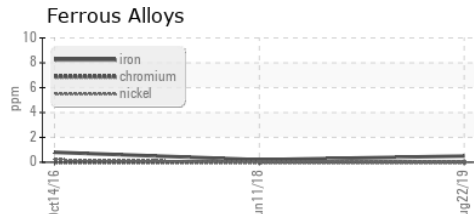
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	46	44.9	40.59

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



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC83987  
**Lab Number** : 04792282  
**Unique Number** : 8727135  
**Test Package** : IND 2

**Received** : 05 Sep 2019  
**Tested** : 06 Sep 2019  
**Diagnosed** : 06 Sep 2019 - Jonathan Hester

**TREMCO**  
 3361 E 80TH ST  
 CLEVELAND, OH  
 US 44127  
 Contact: SERVICE MANAGER

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)

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F: