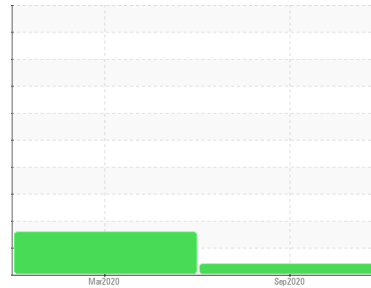


# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id  
**7288984 (S/N 1515)**

Component  
**Compressor**

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

### DIAGNOSIS

#### ▲ Recommendation

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>KC79041</b>	KC72576	---
Sample Date	Client Info			<b>23 Sep 2020</b>	05 Mar 2020	---
Machine Age	hrs	Client Info		<b>2032</b>	526	---
Oil Age	hrs	Client Info		<b>2032</b>	526	---
Oil Changed	Client Info			<b>Changed</b>	Not Changd	---
Sample Status				<b>ATTENTION</b>	ABNORMAL	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>2</b>	1	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>50	<b>8</b>	1	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Antimony	ppm	ASTM D5185m		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

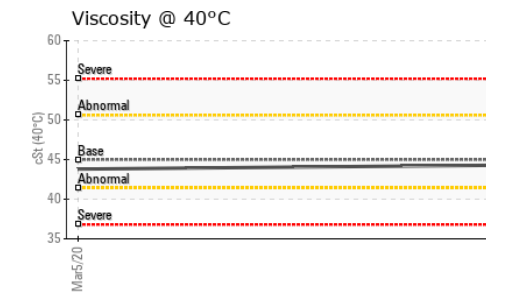
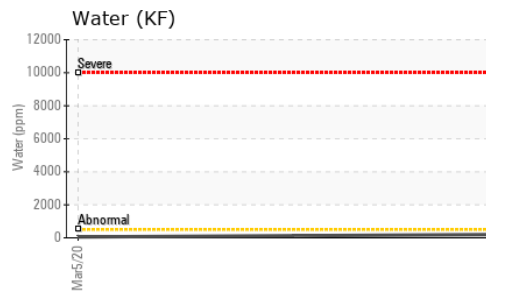
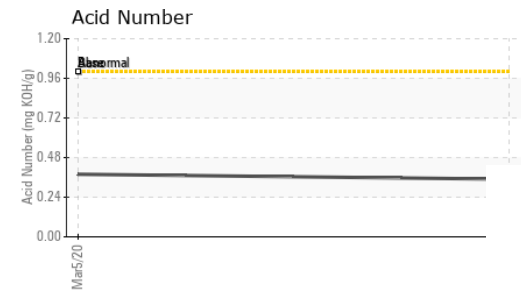
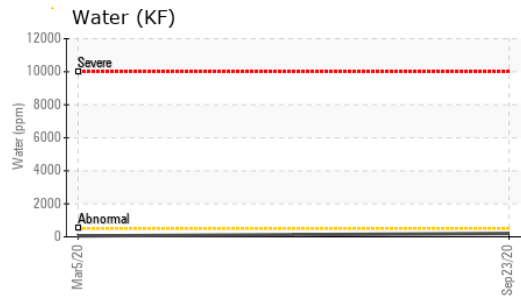
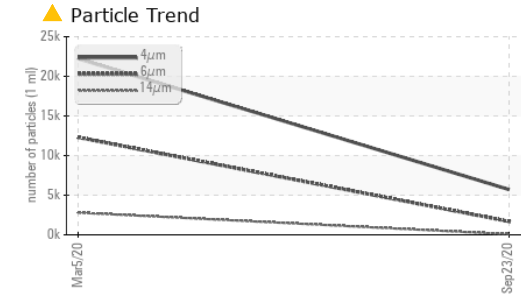
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185m	90	<b>4</b>	82	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	100	<b>49</b>	89	---
Calcium	ppm	ASTM D5185m	0	<b>0</b>	2	---
Phosphorus	ppm	ASTM D5185m	0	<b>4</b>	1	---
Zinc	ppm	ASTM D5185m	0	<b>6</b>	2	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	---
Sodium	ppm	ASTM D5185m		<b>8</b>	8	---
Potassium	ppm	ASTM D5185m	>20	<b>9</b>	8	---
Water	%	ASTM D6304	>0.05	<b>0.020</b>	0.005	---
ppm Water	ppm	ASTM D6304	>500	<b>202.4</b>	53.5	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>5711</b>	22238	---
Particles >6µm		ASTM D7647	>1300	▲ <b>1676</b>	▲ 12303	---
Particles >14µm		ASTM D7647	>80	<b>71</b>	▲ 2799	---
Particles >21µm		ASTM D7647	>20	<b>16</b>	▲ 939	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	▲ 42	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	1	---
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>18/13</b>	▲ 21/19	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	<b>0.349</b>	0.379	---

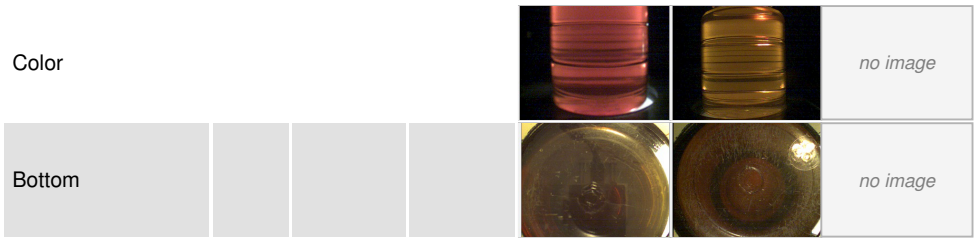
# OIL ANALYSIS REPORT



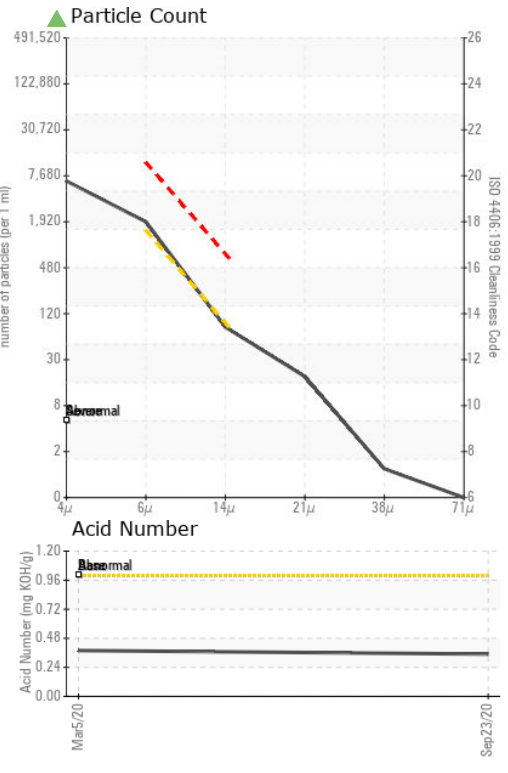
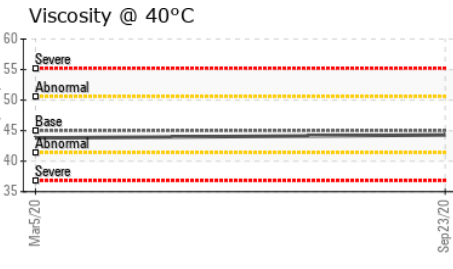
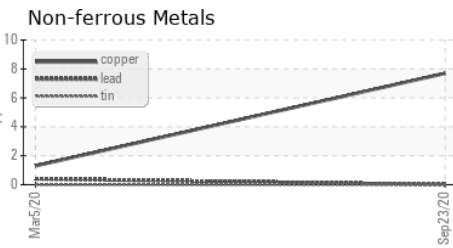
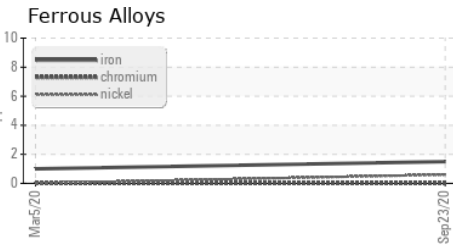
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.3	43.8

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KC79041 **Received** : 30 Sep 2020  
**Lab Number** : 05078142 **Diagnosed** : 02 Oct 2020  
**Unique Number** : 9193373 **Diagnostician** : Angela Borella  
**Test Package** : IND 2

**ACHILLIES AEROSPACE**  
 2100 ENTERPRISE PKWY  
 TWINSBURG, OH  
 US 44087  
 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)