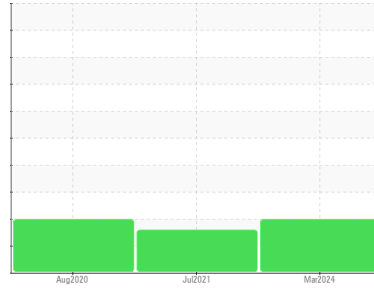




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

**6959861 (S/N 1008)**

Component

**Compressor**

Fluid

**KAESER SIGMA (OEM) FG-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 high 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>KCPA015904</b>	KC98325	KC83319
Sample Date	Client Info			<b>26 Mar 2024</b>	07 Jul 2021	17 Aug 2020
Machine Age	hrs	Client Info		<b>13561</b>	6724	4108
Oil Age	hrs	Client Info		<b>353</b>	2600	4108
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>1</b>	4	8
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>6</b>	▲ 16	▲ 30
Lead	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>0</b>	<1	2
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m		<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

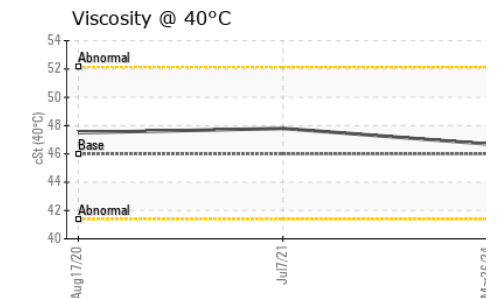
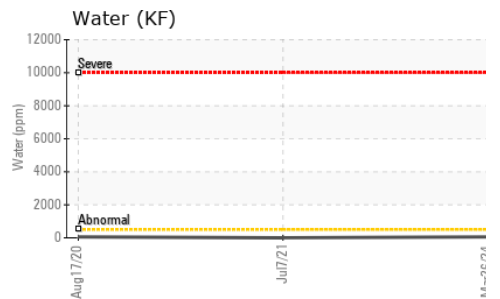
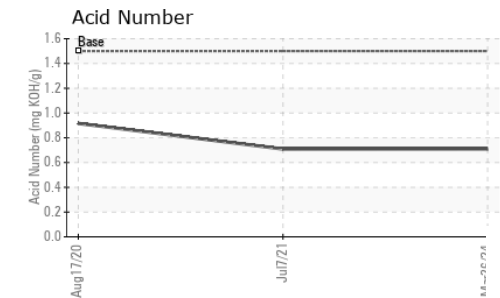
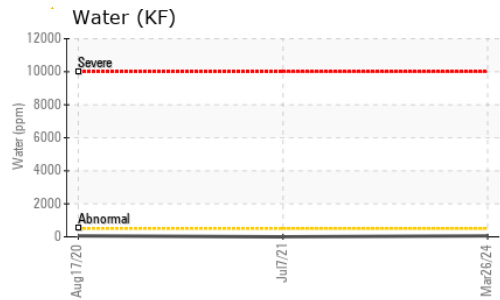
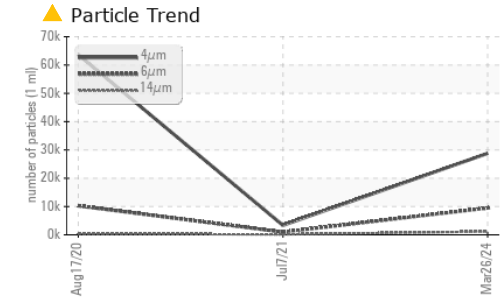
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	1	0
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>0</b>	1	4
Calcium	ppm	ASTM D5185m		<b>&lt;1</b>	0	5
Phosphorus	ppm	ASTM D5185m	500	<b>202</b>	268	378
Zinc	ppm	ASTM D5185m		<b>138</b>	181	185
Sulfur	ppm	ASTM D5185m		<b>1783</b>	1765	2099

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>0</b>	0	<1
Sodium	ppm	ASTM D5185m		<b>2</b>	3	8
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	3	7
Water	%	ASTM D6304	>0.05	<b>0.005</b>	0.001	0.005
ppm Water	ppm	ASTM D6304	>500	<b>60</b>	0.00	59.3

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>28781</b>	3360	63652
Particles >6µm		ASTM D7647	>1300	▲ <b>9469</b>	972	▲ 10261
Particles >14µm		ASTM D7647	>80	▲ <b>1170</b>	● 134	▲ 346
Particles >21µm		ASTM D7647	>20	▲ <b>378</b>	● 39	▲ 84
Particles >38µm		ASTM D7647	>4	▲ <b>19</b>	2	6
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>--/17/13	▲ <b>22/20/17</b>	● 17/14	▲ 21/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	<b>0.71</b>	0.709	0.916

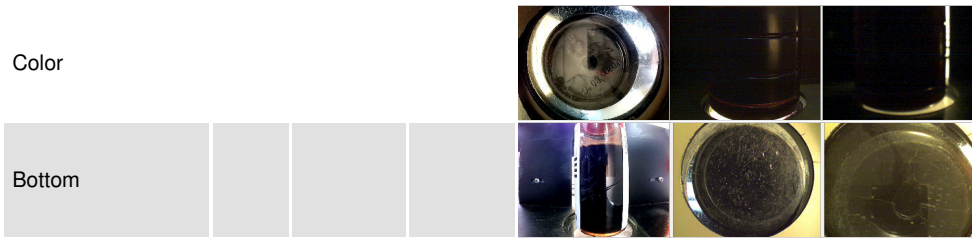
# OIL ANALYSIS REPORT



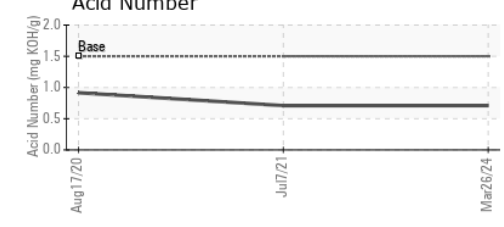
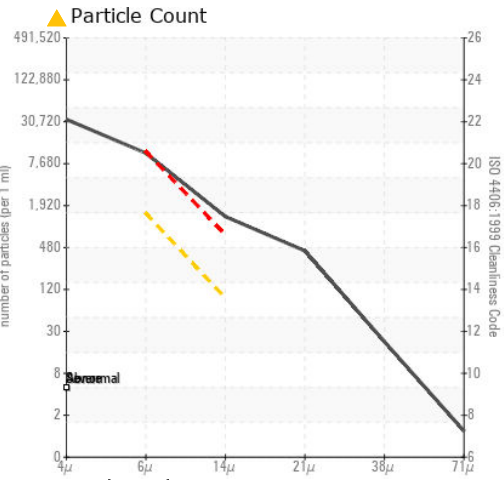
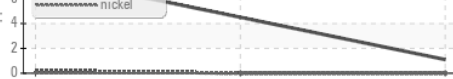
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 46	46.7	47.8	47.5

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KCPA015904 **Received** : 11 Apr 2024  
**Lab Number** : 06145875 **Tested** : 12 Apr 2024  
**Unique Number** : 10975953 **Diagnosed** : 15 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**PROGRESSIVE PRODUCE**  
 5790 PEACHTREE ST  
 LOS ANGELES, CA  
 US 90040  
 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)