

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **1966235 (S/N 1522)** 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 high amount of particulates present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012321		
Sample Date		Client Info		06 May 2024		
Machine Age	hrs	Client Info		64440		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>3	<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>10	<1		
Copper	ppm	ASTM D5185m	>50	8		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	2		
Molybdenum	ppm	ASTM D5185m	0	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	6		
Calcium	ppm	ASTM D5185m	0	3		
Phosphorus	ppm	ASTM D5185m	0	5		
Zinc	ppm	ASTM D5185m	0	5		
Sulfur	ppm	ASTM D5185m	23500	22626		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	2		
Water	%	ASTM D6304	>0.05	0.009		
ppm Water	ppm	ASTM D6304	>500	92		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		23682		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<b>4</b> 99		
Particles >21µm		ASTM D7647	>20	<mark>/</mark> 86		
Particles >38µm		ASTM D7647	>4	2		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 22/20/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.39		



Built for a lifetime

14µm

🔺 Particle Trend

Water (KF)

Acid Number

Water (KF)

Abnormal

Viscosity @ 40°C

25

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1000

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200

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204

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0.00

1000

600 Water (

4000

200

60

55

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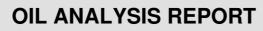
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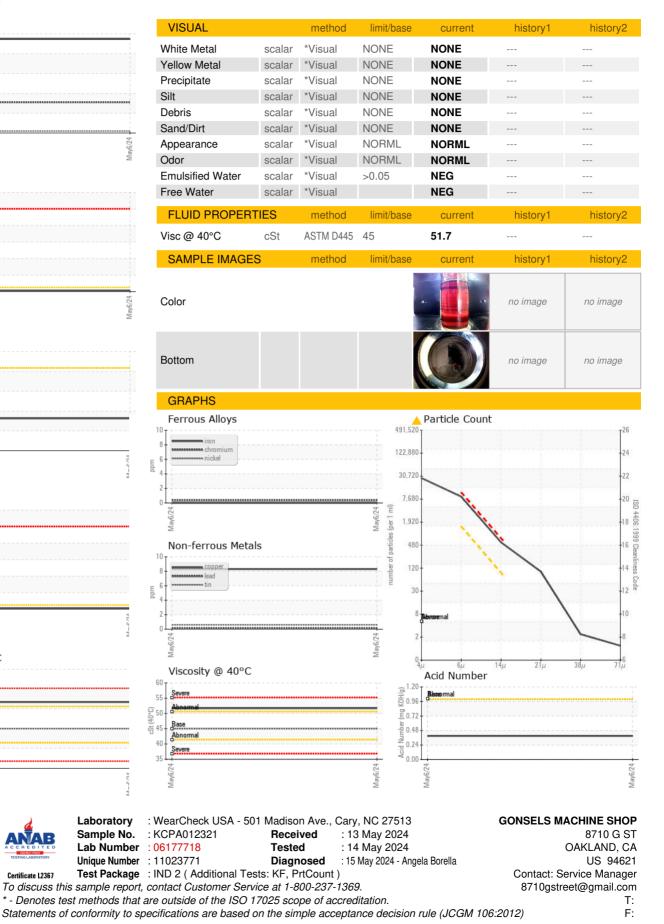
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Abnormal





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Contact/Location: Service Manager - GONOAK