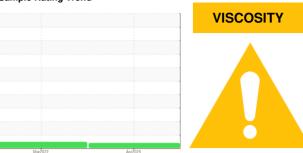


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# 4891916 (S/N 1059)

Component Compressor

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

## Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

			Mar2022	Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number	17 (1101)	Client Info	III III Daoc	KCPA013701	KCP38114	
Sample Number		Client Info		18 Apr 2024	14 Mar 2022	
Machine Age	hrs	Client Info		40892	42000	
Oil Age	hrs	Client Info		0	10000	
Oil Changed	1113	Client Info		Changed	Changed	
Sample Status		Oliotic IIIIo		ABNORMAL	NORMAL	
WEAR METALS		un a de a al	line it //e e e e			history O
		method	limit/base	current	history1	history2
Iron Chromium	ppm	ASTM D5185m ASTM D5185m	>50 >10	0 <1	<1 0	
Nickel	ppm	ASTM D5185m	>10	<1	1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	<1	<1	
Aluminum	ppm	ASTM D5185m		3	<1	
	ppm			_		
Lead	ppm	ASTM D5185m	>10	<1 5	<1 2	
Copper	ppm	ASTM D5185m				
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	
Barium	ppm	ASTM D5185m	90	0	52	
Molybdenum	ppm	ASTM D5185m	0	<1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	100	2	57	
Calcium	ppm	ASTM D5185m	0	0	<1	
Phosphorus	ppm	ASTM D5185m	0	0	10	
Zinc	ppm	ASTM D5185m	0	0	0	
Sulfur	ppm	ASTM D5185m	23500	20752	17292	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	
Sodium	ppm	ASTM D5185m		0	3	
Potassium	ppm	ASTM D5185m	>20	2	2	
Water	%	ASTM D6304	>0.05	0.006	0.023	
ppm Water	ppm	ASTM D6304	>500	60	237.0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		1113	2193	
Particles >6µm		ASTM D7647	>1300	385	607	
Particles >14µm		ASTM D7647	>80	44	51	
Particles >21µm		ASTM D7647	>20	17	11	
Particles >38µm		ASTM D7647	>4	0	1	
Particles >71μm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/16/13	16/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.59	0.45	



## **OIL ANALYSIS REPORT**





Certificate 12367

Sample No.

: KCPA013701 Lab Number : 06156952 Unique Number : 10992375

Received **Tested** Diagnosed

: 26 Apr 2024 Test Package : IND 2 ( Additional Tests: KF, PrtCount )

: 26 Apr 2024 - Jonathan Hester

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)

F: Contact/Location: Service Manager - KNTNEW

NEWARK, CA

US 94560

T: