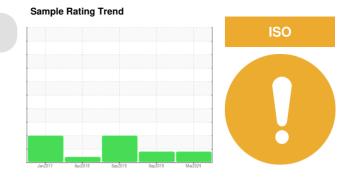


OIL ANALYSIS REPORT



Machine Id **KAESER AIR CENTER SM 10 5484289 (S/N 2130)** Component **Compressor**

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016850	KCP16772	KCP18533
Sample Date		Client Info		25 Mar 2024	16 Sep 2019	05 Sep 2019
Machine Age	hrs	Client Info		53887	22495	17986
Oil Age	hrs	Client Info		3695	4509	0
Oil Changed	1110	Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	ATTENTION	ATTENTION
-		method	limit/base			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0	0	<1
Lead	ppm	ASTM D5185m	>10	0	1	0
Copper	ppm	ASTM D5185m		2	21	44
Tin	ppm	ASTM D5185m	>10	0	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	2	2	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	0
Manganese	ppm	ASTM D5185m		0	1	0
Magnesium	ppm	ASTM D5185m	100	14	25	9
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	14	1	<1
Zinc	ppm	ASTM D5185m	0	12	76	74
Sulfur	ppm	ASTM D5185m	23500	20088	13990	14344
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		5	12	9
Potassium	ppm	ASTM D5185m	>20	<1	1	<1
Water	%	ASTM D6304	>0.05	0.010	0.014	0.012
ppm Water	ppm	ASTM D6304		107	145.6	129.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		3143	5357	6874
Particles >6µm		ASTM D7647	>1300	1184	1259	1875
Particles >14µm		ASTM D7647	>80	82	90	1 58
Particles >21µm		ASTM D7647	>20	16	26	34
Particles >38μm		ASTM D7647	>4	1	0	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>17/13	17/14	17/14	18/14
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Acid Number (AN) 1:20:33) Rev: 1	mg KOH/g	ASTM D8045	1.0	0.41 .ocation: SERVI	0.279	0.310

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Contact/Location: SERVICE MANAGER ? - FEDMEMTN



Built for a lifetime

Particle Trend

144

12k

21

0

12000

10000 800 Water (ppm)

6000 400 200

1.20 (B/H0.9 KOH/d) ₽°0.7 म् वु 0.41 Pio 0.2

0.00

10000

600

4000

200

60

55

40

35

Abnormal

le

S

Ba

S

Jan 13/1

Abnorma

Water (ppm)

, LE

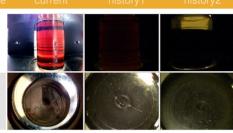
an]

Water (KF)

Acid Number

OIL ANALYSIS REPORT

			VISUAL		method	limit/base	current
			White Metal	scalar	*Visual	NONE	NONE
			Yellow Metal	scalar	*Visual	NONE	NONE
			Precipitate	scalar	*Visual	NONE	NONE
			Silt	scalar	*Visual	NONE	NONE
			Debris	scalar	*Visual	NONE	NONE
	******		Sand/Dirt	scalar	*Visual	NONE	NONE
Sep5/19 Sep16/19	Mar25/24	Appearance	scalar	*Visual	NORML	NORML	
Sel	Sep	Mari	Odor	scalar	*Visual	NORML	NORML
			Emulsified Water	scalar	*Visual	>0.05	NEG
		Free Water	scalar	*Visual		NEG	
		FLUID PROPERT	TIES	method	limit/base	current	
			Visc @ 40°C	cSt	ASTM D445	45	49.9
			SAMPLE IMAGE	S	method	limit/base	current
Sep 5/19	Sep16/19	Mar25/24	Color				
			Bottom				
p5/19	6/19		GRAPHS Ferrous Alloys			491,52	Particle Co



NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

50.2

NONE

NONE

NONE

NONE

NONE

NONE

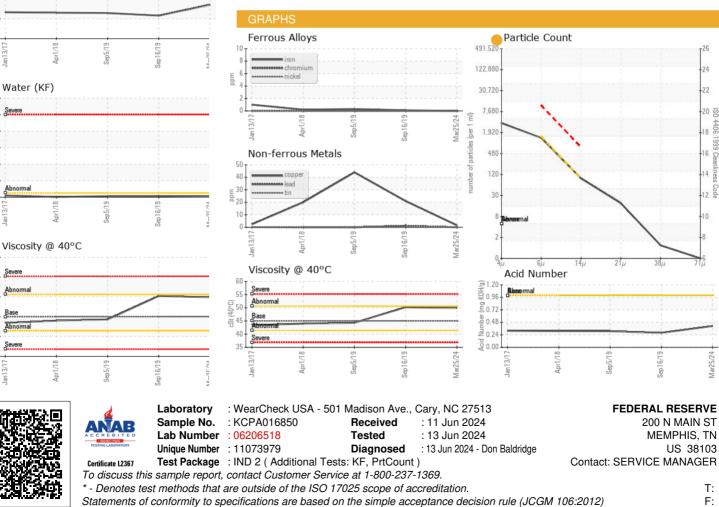
NORML

NORML

NEG

NEG

44.3



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