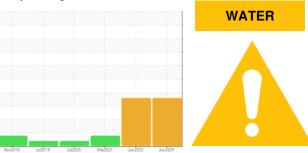


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER SM 10 5559954 (S/N 2178)

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We recommend an early resample in 500 hours to monitor this condition.

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present.

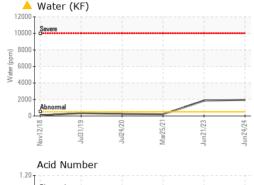
Fluid Condition

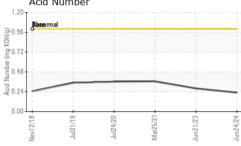
The AN level is acceptable for this fluid.

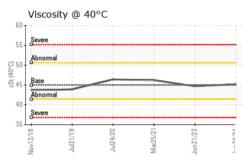
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA019288	KCPA002083	KCP27261
Sample Date		Client Info		24 Jun 2024	21 Jun 2023	25 Mar 2021
Machine Age	hrs	Client Info		6072	5987	5705
Oil Age	hrs	Client Info		85	0	1759
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	2	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	0	6	1
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m				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	0	0	7
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	100	4	8	67
Calcium	ppm	ASTM D5185m	0	0	0	1
Phosphorus	ppm	ASTM D5185m	0	0	4	0
Zinc	ppm	ASTM D5185m	0	27	46	0
Sulfur	ppm	ASTM D5185m	23500	24099	22603	17300
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	0
Sodium	ppm	ASTM D5185m		<1	3	18
Potassium	ppm	ASTM D5185m	>20	0	<1	2
Water	%	ASTM D6304	>0.05	<u> </u>	△ 0.184	0.020
ppm Water	ppm	ASTM D6304	>500	1950	<u>▲</u> 1840	208.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647				3597
Particles >6µm		ASTM D7647	>1300			866
Particles >14µm		ASTM D7647	>80			81
Particles >21µm		ASTM D7647	>20			_ 25
Particles >38μm		ASTM D7647	>4			0
Particles >71μm		ASTM D7647	>3			0
Oil Cleanliness		ISO 4406 (c)	>/17/13			17/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

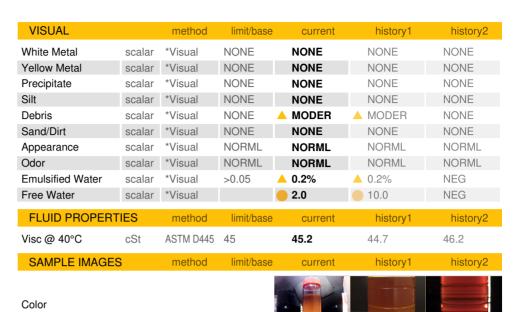


OIL ANALYSIS REPORT



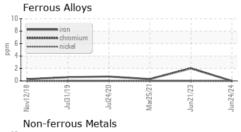


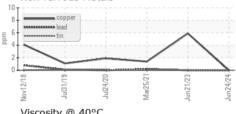


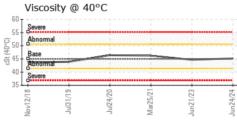


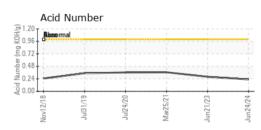
GRAPHS

Bottom













Laboratory Sample No.

Lab Number : 06233844

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA019288

Unique Number : 11122678

Received : 11 Jul 2024 **Tested** Diagnosed

: 13 Jul 2024 : 13 Jul 2024 - Don Baldridge

TOWN OF FALMOUTH WATER DEPT 416 GIFFORD ST FALMOUTH, MA US 02540

Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: MARK MOITOZA MARK.MOITOZA@FALMOUTHMA.GOV T:

* - 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: