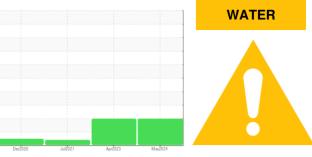


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 5310599

Component Compressor Fluid KAESER SIGMA (OEM) S-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.

Wear

All component wear rates are normal.

Contamination

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

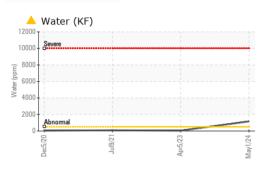
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017543	KCPA001109	KCP42262
Sample Date		Client Info		01 May 2024	05 Apr 2023	09 Jul 2021
Machine Age	hrs	Client Info		44588	39607	32590
Oil Age	hrs	Client Info		0	7017	2559
Oil Changed		Client Info		Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		13	7	11
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	I-I-	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	00	0	0	0
	ppm	ASTM D5185m	90	0	0	0
Molybdenum Manganese	ppm ppm	ASTM D5185m		1	<1	0
Magnesium		ASTM D5185m	90	0	<1	3
Calcium	ppm ppm	ASTM D5185m		0	0	0
Phosphorus		ASTM D5185m	2	۰ <1	5	8
Zinc	ppm ppm	ASTM D5185m		0	0	9
Sulfur		ASTM D5185m		16611	15173	16039
	ppm					
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	0
Sodium	ppm	ASTM D5185m	00	1	<1	<1
Potassium	ppm	ASTM D5185m		0	0	0
Water	%	ASTM D6304		▲ 0.116	0.004	0.008
opm Water	ppm	ASTM D6304		1160	47.6	81.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			10809	
Particles >6µm		ASTM D7647			▲ 2989	
Particles >14µm		ASTM D7647	>80		▲ 178	
Particles >21µm		ASTM D7647			<u>▲</u> 30	
Particles >38µm		ASTM D7647	>4		▲ 5	
Particles >71µm		ASTM D7647			0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		2 1/19/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 18:06) Rev: 1	mg KOH/g	ASTM D8045	0.4	0.39 Contact/Locati	0.37 on: Service Mar	0.387 hager - CINCO

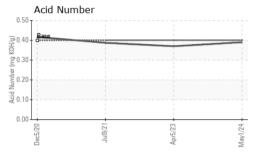
Report Id: CINCOP [WUSCAR] 06177120 (Generated: 05/16/2024 11:18:06) Rev: 1

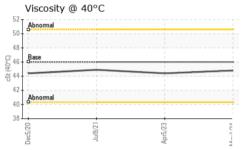
Contact/Location: Service Manager - CINCOP



OIL ANALYSIS REPORT

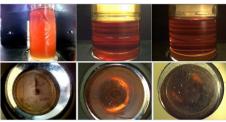




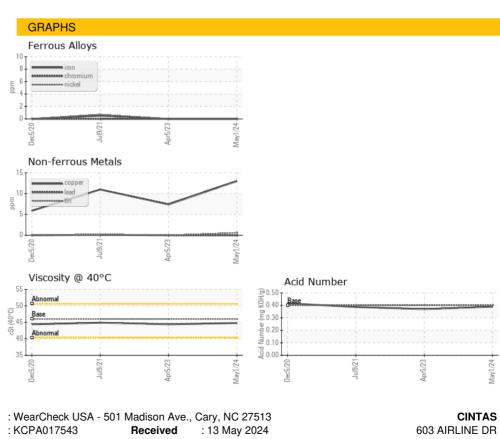


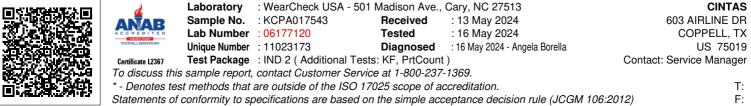
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A HEAVY	LIGHT	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.8	44.4	44.9
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Color



Bottom





Contact/Location: Service Manager - CINCOP Page 2 of 2