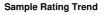


OIL ANALYSIS REPORT





KAESER SK 15 6079849 (S/N 1018)

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count on this sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jul2019	Jun2020	AugŻO21 AugŻO22	Nov2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA007068	KCP30985	KCP41566
Sample Date		Client Info		20 Nov 2023	29 Aug 2022	09 Aug 2021
Machine Age	hrs	Client Info		15677	12232	9300
Oil Age	hrs	Client Info		0	3000	2000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	1	<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	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		24	32	19
Tin	ppm	ASTM D5185m		0	0	<1
Antimony	ppm	ASTM D5185m	- 10			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	13
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	21	24	28
Calcium	ppm	ASTM D5185m	0	0	0	0
Phosphorus	ppm	ASTM D5185m	0	0	3	2
Zinc	ppm	ASTM D5185m	0	72	59	17
Sulfur	ppm	ASTM D5185m	23500	19708	19667	17690
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		11	10	12
Potassium	ppm	ASTM D5185m	>20	<1	0	2
Water	%	ASTM D6304	>0.05	0.012	0.024	▲ 0.103
ppm Water	ppm	ASTM D6304	>500	130	249.5	1039.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			87582	
Particles >6µm		ASTM D7647	>1300		1 9644	
Particles >14µm		ASTM D7647	>80		5 51	
Particles >21µm		ASTM D7647	>20		<u> </u>	
Particles >38µm		ASTM D7647	>4		1	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		▲ 24/21/16	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.44	0.391
-08-14) Rev: 1					on: Service Ma	

Report Id: UNIMAT [WUSCAR] 06017383 (Generated: 12/02/2023 02:08:14) Rev: 1

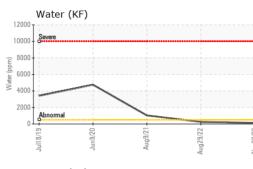
Contact/Location: Service Manager - UNIMAT

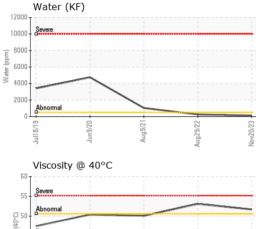


45 - Base Abnorma 40 - Severe

35 G1/81/nL

OIL ANALYSIS REPORT



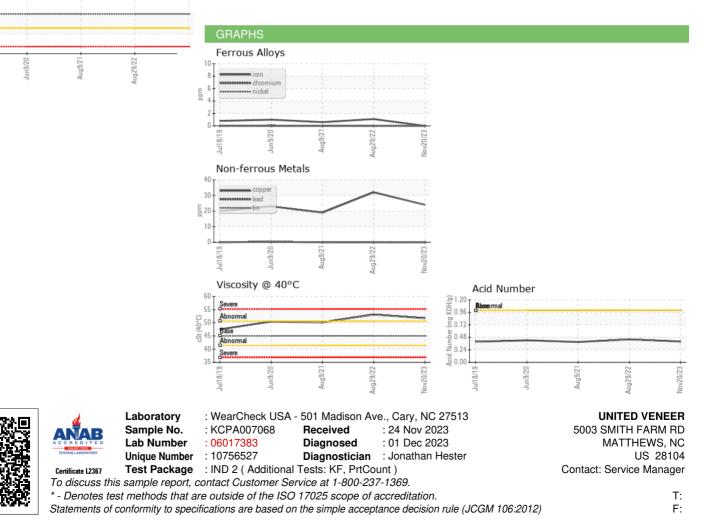


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	51.7	▲ 53.1	50.1
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
				8		

Color



Bottom



Contact/Location: Service Manager - UNIMAT