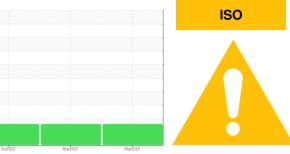


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

2392672 (S/N 1021)

Component Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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 a high amount of particulates 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.

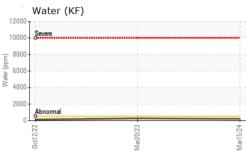
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015711	KCPA001431	KCP46749D
Sample Date		Client Info		15 Mar 2024	20 Mar 2023	12 Oct 2022
Machine Age	hrs	Client Info		0	27514	23968
Oil Age	hrs	Client Info		0	0	3164
Oil Changed		Client Info		Changed	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	3	<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	0	0
Lead	ppm	ASTM D5185m	>10	0	13	10
Copper	ppm	ASTM D5185m		3	6	5
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m	-	0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	93	115	77
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	90	99	137	114
Calcium	ppm	ASTM D5185m	2	23	4	0
Phosphorus	ppm	ASTM D5185m		10	4	16
Zinc	ppm	ASTM D5185m		8	0	0
Sulfur	ppm	ASTM D5185m		15012	18011	19253
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		20	19	18
Potassium	ppm	ASTM D5185m	>20	0	4	2
Water	%	ASTM D6304	>0.05	0.019	0.026	0.013
ppm Water	ppm	ASTM D6304	>500	192	264.1	133.8
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		7693	10959	8767
Particles >6µm		ASTM D7647		<u> </u>	A 3113	2283
Particles >14µm		ASTM D7647	>80	<u> </u>	1 76	1 79
		ASTM D7647	>20	<u> </u>	<u> </u>	<u> </u>
Particles >21µm						
Particles >21µm Particles >38µm		ASTM D7647	>4	2	3	2
Particles >21µm Particles >38µm Particles >71µm				2 1	0	0
Particles >21µm Particles >38µm		ASTM D7647				
Particles >21µm Particles >38µm Particles >71µm		ASTM D7647 ASTM D7647	>3	1	0	0

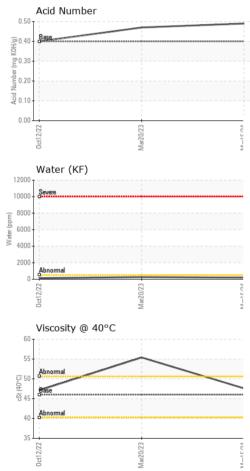
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-COMPRESSOR

Built for a lifetime.

Particle Trend 12 .10 n l 4µm particles (1 8 61 4 21 0 Mar15/24

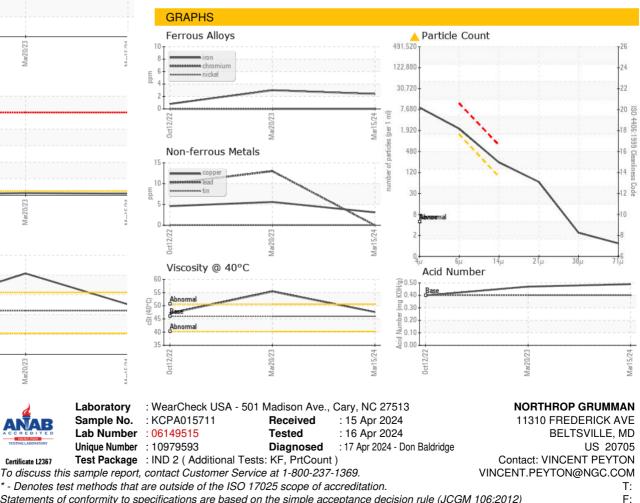




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OIL ANALYSIS REPORT

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	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	LIGHT	NONE
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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.6	55.4	47.1
Visc @ 40°C SAMPLE IMAGES		ASTM D445 method	46 limit/base	47.6 current	55.4 history1	47.1 history2
-						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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