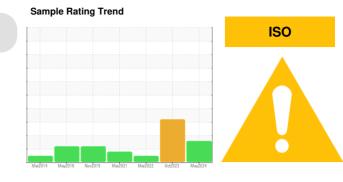


OIL ANALYSIS REPORT



Machine Id

KAESER BSD 50 4448886 (S/N 1020)

Component Compressor Fluid

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The 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 suitable for further service.

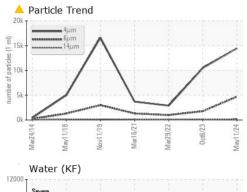
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016569	KCPA006919	KCP44640
Sample Date		Client Info		11 May 2024	06 Oct 2023	29 Mar 2022
Machine Age	hrs	Client Info		25026	24000	20857
Oil Age	hrs	Client Info		0	0	2259
Oil Changed	1110	Client Info		Not Changd	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron			>50			<1
Chromium	ppm	ASTM D5185m ASTM D5185m	>50	0 <1	0	< 1
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m ASTM D5185m	>3 >2	ں <1	0	0
Aluminum	ppm ppm		>2	<1	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	0
Copper	ppm	ASTM D5185m		<1	2	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m	210			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	ppin	method	limit/base	-		
			inniv base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	60	24	21
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m	0.0	0	<1	0
Magnesium	ppm	ASTM D5185m	90	86	82	89
Calcium	ppm	ASTM D5185m	2	0	2	2
Phosphorus Zinc	ppm	ASTM D5185m		0	<1 0	0
Sulfur	ppm	ASTM D5185m		0 24572	17796	16838
	ppm	ASTM D5185m		-		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<u> </u>	<1
Sodium	ppm	ASTM D5185m		17	17	17
Potassium	ppm	ASTM D5185m		3	3	<1
Water	%	ASTM D6304		0.020	0.025	0.014
ppm Water	ppm	ASTM D6304	>500	204	259	146.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		14469	10506	2891
Particles >6µm		ASTM D7647		<u> </u>	1766	991
Particles >14µm		ASTM D7647	>80	<u> </u>	90	67
Particles >21µm		ASTM D7647		<u> </u>	37	7
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/19/15	21/18/14	17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) :56:10) Rev: 1	mg KOH/g	ASTM D8045	0.4	0.34 Contact/Locatio	0.34 on: PURCHASIN	0.37 G ? - NORBE

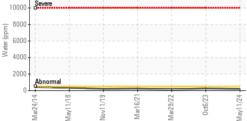
Report Id: NORBEN [WUSCAR] 06181997 (Generated: 05/20/2024 12:56:10) Rev: 1

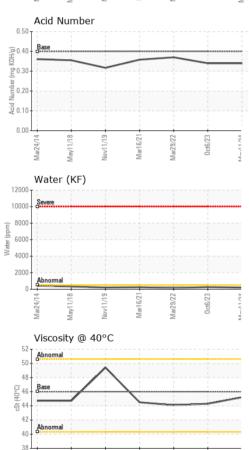
Contact/Location: PURCHASING ? - NORBEN



OIL ANALYSIS REPORT







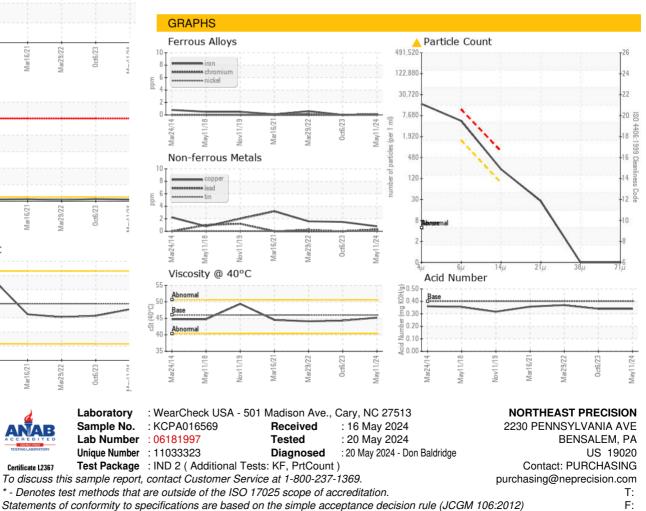
Vov11/19

Mar24/14

May11

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	NONE	NONE	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	45.2	44.3	44.1
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



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Certificate 12367

Contact/Location: PURCHASING ? - NORBEN