

OIL ANALYSIS REPORT

Machine Id 6987206 (S/N 1132) Component

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

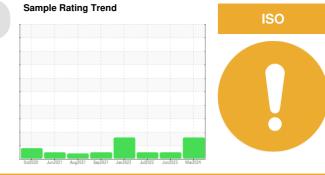
All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

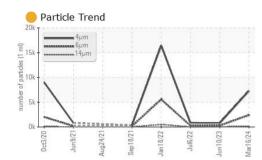
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

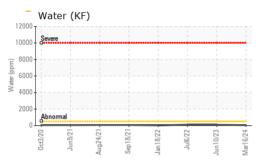


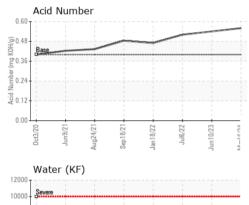
Sample Number Client Info KC129897 KC120572 KC30084 Sample Date hrs Client Info 16 Mar 2024 10 Jun 2023 06 Jul 2022 Machine Age hrs Client Info 31149 26665 20272 Oil Age Client Info S000 0 0 0 Oil Changed Client Info Changed N/A Changed NORMAL WEAR METALS method Imit/base current history1 history1 Iron ppm ASTM 05185m >0 0 0 0 Nickel ppm ASTM 05185m >10 0 0 0 Aluminum ppm ASTM 05185m >10 0 0 0 Autiminum ppm ASTM 05185m >10 0 0 0 0 Autiminum ppm ASTM 05185m 0 0 0 0 0 Autiminum ppm ASTM 05185m 0 0 0 <th>SAMPLE INFORM</th> <th>ATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2	
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Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 90 0 2 0 Molybdenum ppm ASTM D5185m 0 0 0 0 Manganese ppm ASTM D5185m 90 0 <1	Cadmium	ppm	ASTM D5185m		0	0	0	
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Calcium ppm ASTM D5185m 2 0 0 0 Phosphorus ppm ASTM D5185m 0 0 0 13 Zinc ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 0 0 Sodium ppm ASTM D5185m >25 0 0 <1 0 Potassium ppm ASTM D5185m >20 0 1 <1 0 Water % ASTM D5185m >20 0 11.5 115.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 7259 762 862 Particles >14µm ASTM D7647 >80 146 26 12 Particles >21µm ASTM D7647 20 35	Manganese	ppm	ASTM D5185m		0	0	0	
Phosphorus ppm ASTM D5185m 0 0 13 Zinc ppm ASTM D5185m 0 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1 Sodium ppm ASTM D5185m >25 0 0 <1 Sodium ppm ASTM D5185m >20 0 1 <1 Otassium ppm ASTM D5185m >20 0 1 <1 Water % ASTM D6304 >0.05 0.005 0.010 0.011 ppm Water ppm ASTM D7647 7259 762 862 Particles >4µm ASTM D7647 >1300 2413 274 260 Particles >14µm ASTM D7647 >80 146 26 12 Particles >21µm ASTM D7647 >20 35 6 2 Part	Magnesium	ppm	ASTM D5185m	90	0	<1	1	
Zinc ppm ASTM D5185m 0 0 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 0 <1	Calcium	ppm	ASTM D5185m	2	0	0	0	
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Water % ASTM D6304 >0.05 0.005 0.010 0.011 ppm Water ppm ASTM D6304 >500 52 101.5 115.7 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 7259 762 862 Particles >6µm ASTM D7647 >1300 2413 274 260 Particles >6µm ASTM D7647 >80 146 26 12 Particles >21µm ASTM D7647 >20 35 6 2 Particles >38µm ASTM D7647 >4 1 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2	Sodium	ppm	ASTM D5185m		<1	0	0	
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FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 7259 762 862 Particles >6µm ASTM D7647 >1300 2413 274 260 Particles >6µm ASTM D7647 >80 146 26 12 Particles >14µm ASTM D7647 >20 35 6 2 Particles >21µm ASTM D7647 >20 35 6 2 Particles >38µm ASTM D7647 >4 1 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2	Water		ASTM D6304	>0.05	0.005	0.010	0.011	
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Particles >14µm ASTM D7647 >80 146 26 12 Particles >21µm ASTM D7647 >20 35 6 2 Particles >38µm ASTM D7647 >4 1 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647		7259	762	862	
Particles >21µm ASTM D7647 >20 35 6 2 Particles >38µm ASTM D7647 >4 1 0 1 Particles >38µm ASTM D7647 >4 1 0 1 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300	<u> </u>	274	260	
Particles >21μm ASTM D7647 >20 35 6 2 Particles >38μm ASTM D7647 >4 1 0 1 Particles >38μm ASTM D7647 >4 1 0 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2	-		ASTM D7647	>80	<u> </u>	26	12	
Particles >38μm ASTM D7647 >4 1 0 1 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2			ASTM D7647	>20	935	6	2	
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2					-			
Oil Cleanliness ISO 4406 (c) >/17/13 20/18/14 17/15/12 17/15/11 FLUID DEGRADATION method limit/base current history1 history2				>3	0	0	0	
Acid Number (AN) mg KOH/g ASTM D8045 0.4 0.56 0.54 0.52	FLUID DEGRADA		method	limit/base	current	history1	history2	
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.56	0.54	0.52	

Contact/Location: A. MONTER - VENSALOH

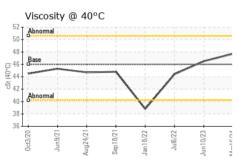








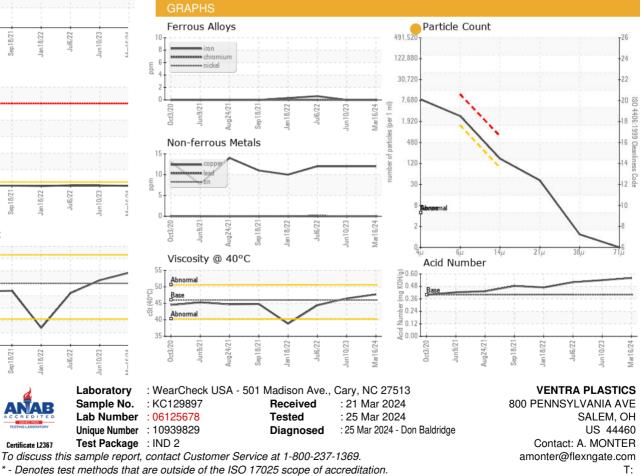




Certificate L2367

OIL ANALYSIS REPORT

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	47.7	46.5	44.4
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					J	
Bottom						



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

Contact/Location: A. MONTER - VENSALOH

F:

Report Id: VENSALOH [WUSCAR] 06125678 (Generated: 03/25/2024 15:53:03) Rev: 1