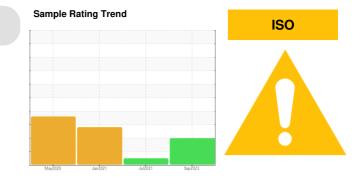


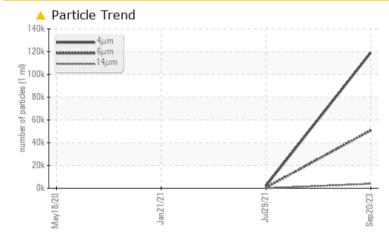
PROBLEM SUMMARY



4234495 (S/N 1057) Component

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TI	EST RESULTS				
Sample Status		ABI	NORMAL	NORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >	>1300 🔺 5	0860	520	
Particles >14µm	ASTM D7647 >	>80 🔺 3	918	43	
Particles >21µm	ASTM D7647 >	>20 🔺 8	53	16	
Particles >38µm	ASTM D7647 >	>4 🔺 2	21	1	
Oil Cleanliness	ISO 4406 (c)	>/17/13 🔺 2	24/23/19	16/13	

Customer Id: GIBMTG Sample No.: KCPA006149 Lab Number: 05960667 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

29 Jul 2021 Diag: Don Baldridge





Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

21 Jan 2021 Diag: Jonathan Hester



Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. There is a moderate amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report



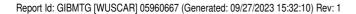
18 May 2020 Diag: Jonathan Hester

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Free water present. There is a light concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.











OIL ANALYSIS REPORT

Sample Rating Trend ISO

Machine Id 4234495 (S/N 1057) Component

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

DIAGNOSIS

Recommendation

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.

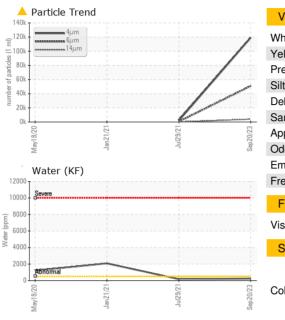
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA006149	KCP42670	KCP27812
Sample Date		Client Info		20 Sep 2023	29 Jul 2021	21 Jan 2021
Machine Age	hrs	Client Info		64813	54265	50180
Oil Age	hrs	Client Info		0	3000	6000
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium	ppm	ASTM D5185m	>50	<1 0	0	2
	ppm	ASTM D5185m		-	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium Silver	ppm	ASTM D5185m		-	0	0 <1
Aluminum	ppm	ASTM D5185m	>2 >10	0		
	ppm	ASTM D5185m	>10 >10	<1 0	0	0
Lead	ppm	ASTM D5185m				<1
Copper Tin	ppm	ASTM D5185m		3	6	0
	ppm	ASTM D5185m ASTM D5185m	>10	<1	0	0
Antimony Vanadium	ppm	ASTM D5185m ASTM D5185m		0	0	0
	ppm			0		0
Cadmium	ppm	ASTM D5185m		-	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m	90	70	19	14
Calcium	ppm	ASTM D5185m	2	1	0	22
Phosphorus	ppm	ASTM D5185m		6	17	80
Zinc	ppm	ASTM D5185m		9	41	109
Sulfur	ppm	ASTM D5185m		21324	14713	14082
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	0
Sodium	ppm	ASTM D5185m		8	10	7
Potassium	ppm	ASTM D5185m	>20	6	1	2
Water	%	ASTM D6304	>0.05	0.023	0.017	▲ 0.208
ppm Water	ppm	ASTM D6304	>500	233.5	171.7	▲ 2080
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		119051	1978	
Particles >6µm		ASTM D7647	>1300	<u> </u>	520	
Particles >14µm		ASTM D7647	>80	A 3918	43	
Particles >21µm		ASTM D7647	>20	<u> </u>	16	
Particles >38µm		ASTM D7647	>4	<mark>/</mark> 21	1	
Particles >71µm		ASTM D7647	>3	2	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 24/23/19	16/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.39	0.273	0.247
			2		0.270	··- · ·

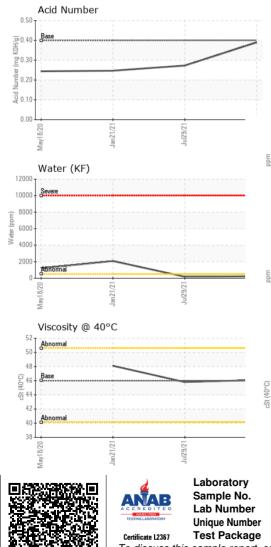
Report Id: GIBMTG [WUSCAR] 05960667 (Generated: 09/27/2023 15:32:10) Rev: 1

Contact/Location: Service Manager - GIBMTG



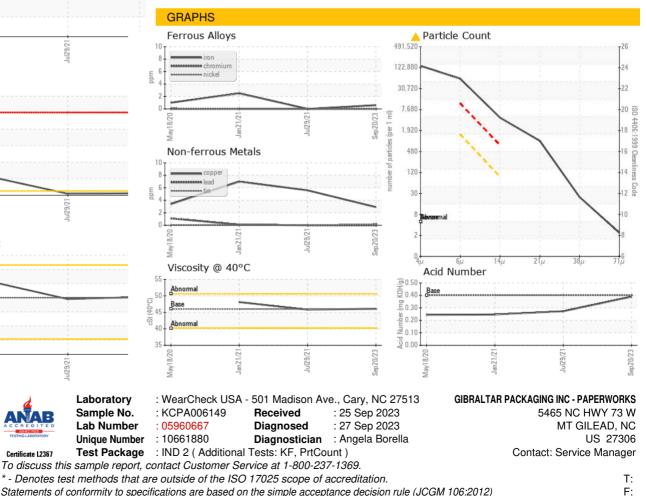
OIL ANALYSIS REPORT





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	A MODER
Debris	scalar	*Visual	NONE	LIGHT	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	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	46.1	45.8	48.1
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						

Bottom



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

Contact/Location: Service Manager - GIBMTG