

PROBLEM SUMMARY

Sample Rating Trend

WEAR

Machine Id 8763128 (S/N 1398) Component

Compressor

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE						
Aluminum	ppm	ASTM D5185m	>10	• 70						
Particles >6µm		ASTM D7647	>1300	A 3954						
Particles >14µm		ASTM D7647	>80	🔺 167						
Particles >21µm		ASTM D7647	>20	4 35						
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>						
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	8.227						
Visc @ 40°C	cSt	ASTM D445	46	<u> </u>						

Customer Id: BRIMANWI Sample No.: KCPA006977 Lab Number: 06027172 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Inspect Wear Source			?	We advise that you inspect for the source(s) of wear.			
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.			
Check For Overheating			?	We advise that you check for a possible overheat condition.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

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Machine Id 8763128 (S/N 1398) Component

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

DIAGNOSIS

Recommendation

We advise that you check for a possible overheat condition. We recommend that you drain the oil from the component if this has not already been done. The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample in 500 hours to monitor this condition.

Near 🛑

The aluminum level is severe.

Contamination

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

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. TAN level indicates possible presence of varnish. The oil is no longer serviceable.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA006977		
Sample Date		Client Info		21 Nov 2023		
Machine Age	hrs	Client Info		8304		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	12		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	● 70		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	18		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		<1		
Phosphorus	ppm	ASTM D5185m	500	201		
Zinc	ppm	ASTM D5185m		28		
Sulfur	ppm	ASTM D5185m		113		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	4		
Water	%	ASTM D6304	>0.05	0.027		
ppm Water	ppm	ASTM D6304	>500	276		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		16945		
Particles >6µm		ASTM D7647	>1300	A 3954		
Particles >14 μ m		ASTM D7647	>80	167		
Particles >21µm		ASTM D7647	>20	<mark>/</mark> 35		
Particles >38µm		ASTM D7647	>4	1		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 21/19/15		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.5	8.227		



OIL ANALYSIS REPORT









To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Test Package : IND 2 (Additional Tests: KF, PrtCount)

: 10776963

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

Diagnostician : Jonathan Hester

Certificate L2367

Lab Number

Unique Number

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US 54220

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Contact: RYAN HICKEY

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