

PROBLEM SUMMARY

Sample Rating Trend

ISO

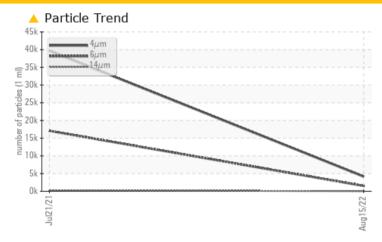
7471966 (S/N 1438)

Component

Compressor

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

COMPONENT CONDITION SUMMARY



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.

PROBLEMATIC TEST RESULTS								
Sample Status			ATTENTION	ABNORMAL				
Particles >6µm	ASTM D7647	>1300	1518	<u>▲</u> 17074				
Oil Cleanliness	ISO 4406 (c)	>/17/13	19/18/12	<u></u> 21/15				

Customer Id: PHINEWKC Sample No.: KC86310 Lab Number: 05637143 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		

HISTORICAL DIAGNOSIS

21 Jul 2021 Diag: Angela Borella

ISC

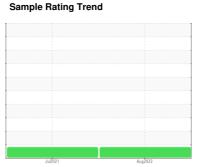


Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



ISO

ISO

7471966 (S/N 1438)

Component

Compressor

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 moderate amount of silt (particulates < 14 microns in size) present in the oil.

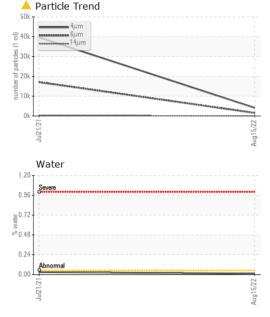
Fluid Condition

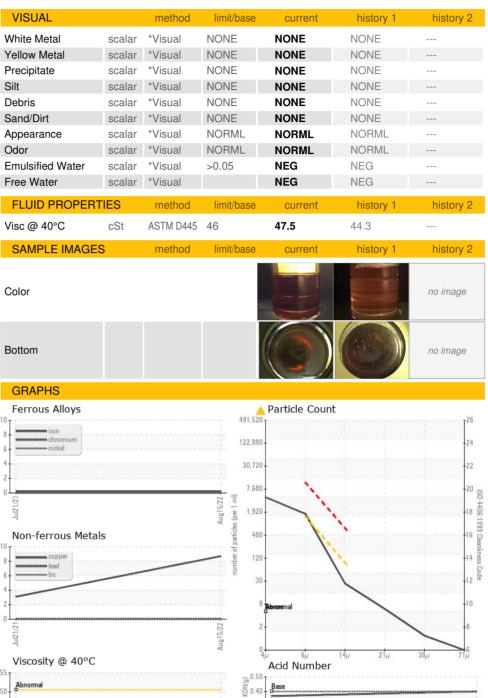
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Jul2021	Aug ² 022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KC86310	KC98176	
Sample Date				15 Aug 2022	21 Jul 2021	
Machine Age	hrs			5949	1773	
Oil Age	hrs			4000	1773	
Oil Changed				Changed	Changed	
Sample Status				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	9	3	
Tin	ppm	ASTM D5185m	>10	0	0	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m	90	0	27	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	90	20	60	
Calcium	ppm	ASTM D5185m	2	0	0	
Phosphorus	ppm	ASTM D5185m		1	7	
Zinc	ppm	ASTM D5185m		3	0	
CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	<1	1	
Sodium	ppm	ASTM D5185m		6	15	
Potassium	ppm	ASTM D5185m	>20	0	7	
Water	%	ASTM D6304	>0.05	0.012	0.029	
ppm Water	ppm	ASTM D6304	>500	124.3	299.8	
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4µm		ASTM D7647		4126	39682	
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 17074	
Particles >14µm		ASTM D7647	>80	23	<u>^</u> 281	
Particles >21µm		ASTM D7647	>20	5	12	
Particles >38μm		ASTM D7647	>4	1	0	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	19/18/12	<u>^</u> 21/15	
FLUID DEGRADA	TION	method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.40	0.368	



OIL ANALYSIS REPORT





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Aug15/22





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package

: KC86310 : 05637143 : 10126673

: IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 08 Sep 2022 Received Diagnosed : 09 Sep 2022 : Doug Bogart Diagnostician

PHILADELPHIA GEAR - TIMKEN 100 ANCHOR MILL RD

NEW CASTLE, DE USA 19720

Contact: Service Manager

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.

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

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