

PROBLEM SUMMARY

Sai

Sample Rating Trend

DIRT

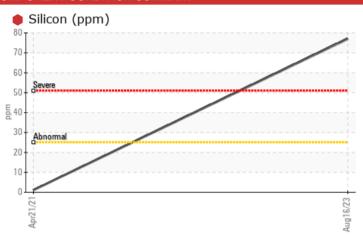
1582567 (S/N 1657)

Component

Compressor

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

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE	ABNORMAL					
Silicon	ppm	ASTM D5185m	>25	• 77	1					
Particles >6µm		ASTM D7647	>1300	<u> </u>						
Particles >14µm		ASTM D7647	>80	<u> </u>						
Particles >21µm		ASTM D7647	>20	4 342						
Particles >38µm		ASTM D7647	>4	<u>^</u> 9						
Oil Cleanliness		ISO 4406 (c)	>/17/13	22/21/17						

Customer Id: NORSAC Sample No.: KCPA004336 Lab Number: 05933594 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Resample			?	We recommend an early resample to monitor this condition.			
Check Dirt Access			?	We advise that you check all areas where dirt can enter the system.			

HISTORICAL DIAGNOSIS

21 Apr 2021 Diag: Jonathan Hester

VIS DEBRIS



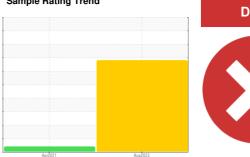
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



1582567 (S/N 1657) Component

Compressor

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

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal.

Fluid Condition

The AN level is acceptable for this fluid.

		,	Apr2021	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA004336	KCP31503	
Sample Date		Client Info		16 Aug 2023	21 Apr 2021	
Machine Age	hrs	Client Info		33439	29378	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	10	
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	<1	
Aluminum	ppm	ASTM D5185m	>10	0	7	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	4	6	
Tin	ppm	ASTM D5185m	>10	0	<1	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m	0	0	7	
Barium	ppm	ASTM D5185m	90	2	0	
	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m	0	0	<1	
Manganese	ppm	ASTM D5185m	100	8	5	
Magnesium Calcium	ppm			0	0	
	ppm	ASTM D5185m	0	-		
Phosphorus	ppm	ASTM D5185m	0	40	56	
Zinc	ppm	ASTM D5185m	0	37	93	
Sulfur	ppm	ASTM D5185m	23500	16676	13965	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	77	1	
Sodium	ppm	ASTM D5185m		0	5	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	0.004	0.012	
ppm Water	ppm	ASTM D6304	>500	42.5	128.9	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		29685		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14μm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<u> 4</u> 342		
Particles >38µm		ASTM D7647	>4	<u>^</u> 9		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/21/17</u>		
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2

mg KOH/g ASTM D8045 1.0

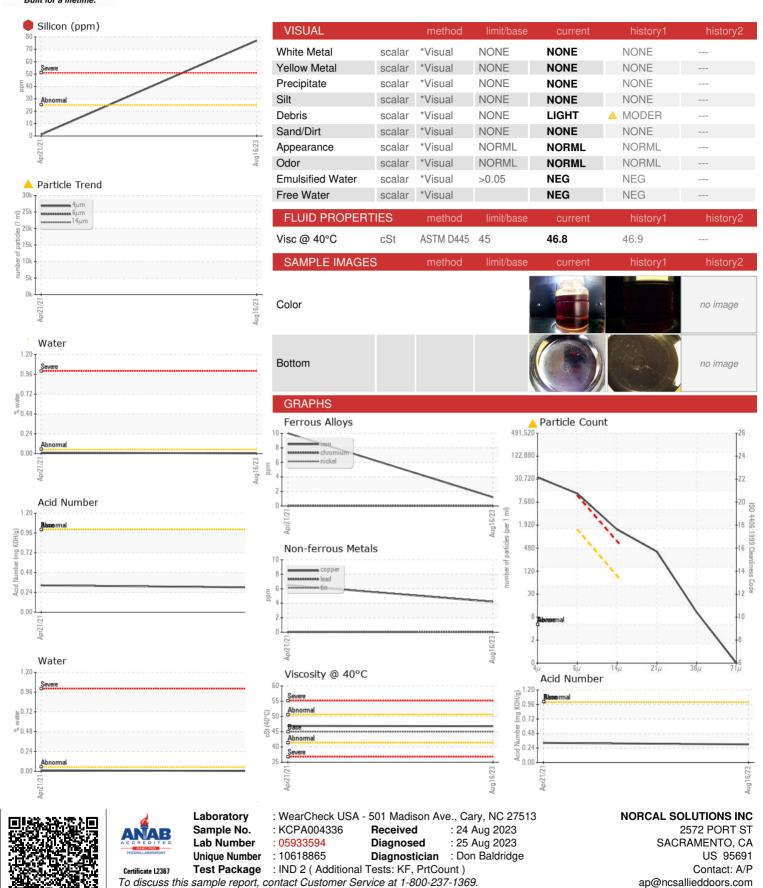
Acid Number (AN)

0.325

0.30



OIL ANALYSIS REPORT



* - 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)

T:

F: