

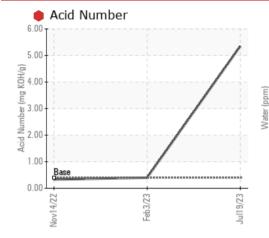
PROBLEM SUMMARY

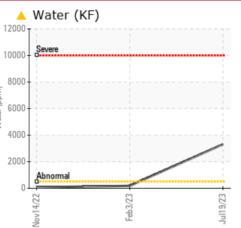
Sample Rating Trend DEGRADATION

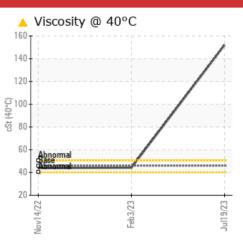


KAESER SIGMA (OEM) S-460 (--- QTS)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check for a possible overheat condition. The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	ABNORMAL	NORMAL		
Water	%	ASTM D6304	>0.05	A 0.331	0.018	0.007		
ppm Water	ppm	ASTM D6304	>500	A 3310	186.3	78.2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	e 5.35	0.40	0.33		
Debris	scalar	*Visual	NONE	🔺 MODER	🔺 MODER	LIGHT		
Visc @ 40°C	cSt	ASTM D445	46	🔺 152	44.3	44.0		

Customer Id: PPMMOB Sample No.: KC05960612 Lab Number: 05960612 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 customerservice@wearcheck.com

RECOMMENDE	COMMENDED ACTIONS					
Action	Status	Date	Done By	Description		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		
Check For Overheating			?	We advise that you check for a possible overheat condition.		

HISTORICAL DIAGNOSIS



03 Feb 2023 Diag: Jonathan Hester

We recommend you service the filters on this component. 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.



14 Nov 2022 Diag: Don Baldridge

NORMAL



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.





OIL ANALYSIS REPORT

Sample Rating Trend



X

Machine Id 7407778 (S/N 1088) Component Compressor

Fluid KAESER SIGMA (OEM) S-460 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check for a possible overheat condition. The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil.

Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal.

		No	v2022	Feb2023 Jul20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC05960612	KC05919263	KC96134
Sample Date		Client Info		19 Jul 2023	03 Feb 2023	14 Nov 2022
Machine Age	hrs	Client Info		19014	16423	14720
Oil Age	hrs	Client Info		0	0	6000
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	18	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	<1	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	1	11	8
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		2	0	0
Barium	ppm	ASTM D5185m	90	0	0	1
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	8	0	<1
Calcium	ppm	ASTM D5185m	2	20	0	0
Phosphorus	ppm	ASTM D5185m		23	0	4
Zinc	ppm	ASTM D5185m		2	0	0
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		8	0	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.05	A 0.331	0.018	0.007
opm Water	ppm	ASTM D6304	>500	A 3310	186.3	78.2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647				2420
Particles >6µm		ASTM D7647	>1300			436
Particles >14µm		ASTM D7647	>80			35
Particles >21µm		ASTM D7647	>20			16
Particles >38µm		ASTM D7647	>4			3
Particles >71µm		ASTM D7647	>3			1
Oil Cleanliness		ISO 4406 (c)	>/17/13			18/16/12
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	5 .35	0.40	0.33
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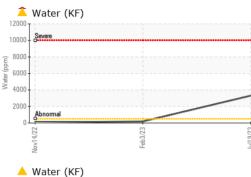
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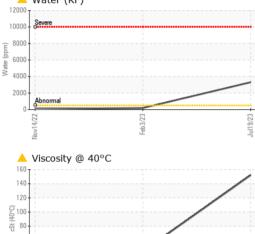
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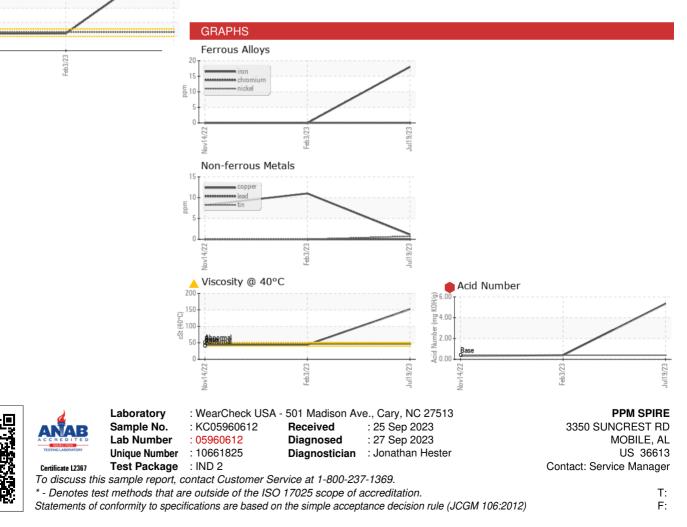
Nov14/22

OIL ANALYSIS REPORT









Contact/Location: Service Manager - PPMMOB