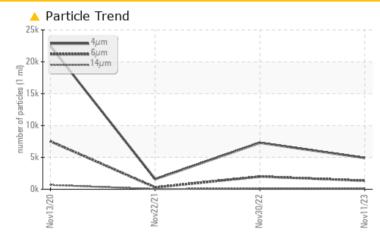




Machine Id 2390306 (S/N 1157) Component

Compressor Fluid KAESER SIGMA (OEM) M-460 (--- QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS Sample Status NORMAL ATTENTION ATTENTION Particles >6µm ASTM D7647 >1300 **1342** ▲ 1991 303 Particles >14µm ASTM D7647 >80 **107 1**30 30 Particles >21µm ASTM D7647 >20 9 31 **4** 34 **Oil Cleanliness** ISO 4406 (c) >--/17/13 A 19/18/14 ▲ 20/18/14 15/12

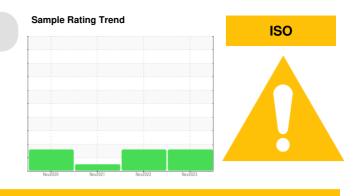
Customer Id: JACJACMO Sample No.: KCP23527D Lab Number: 06013380 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 <u>don.b505@comcast.net</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			
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



30 Nov 2022 Diag: Don Baldridge

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a moderate 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.



view report

22 Nov 2021 Diag: Jonathan Hester



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

13 Nov 2020 Diag: Jonathan Hester



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.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

Sample Rating Trend ISO

Machine Id 2390306 (S/N 1157) Component

Compressor Fluid KAESER SIGMA (OEM) M-460 (--- QTS)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate 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.

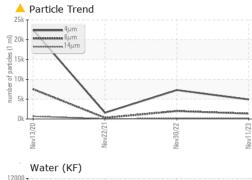
Sample Number Client Info KCP23527D KCP5203 KCP39392 Sample Date Client Info 11 Nov 2023 30 Nov 2022 22 Nov 2021 Machine Age hrs Client Info 45722 40395 35078 Oil Age hrs Client Info 45722 40395 35078 Oil Age Client Info 45722 40395 3500 500 Oil Changed Client Info ATTENTION NORMAL Normality Normality	SAMPLE INFORM		method	limit/base	current	history1	history2
Sample Date Client Into 11 Nov 2023 30 Nov 2022 22 Nov 2021 Machine Age hrs Client Info 45722 40396 35078 Oil Age hrs Client Info 3000 3000 5500 Oil Changed Client Info Changed Changed Changed Changed Sample Status Image Image ATTENTION ATTENTION NORMAL WEAR METALS method limitbase current history1 0 Chromium ppm ASTM 05185m >3 0 0 0 Nickel ppm ASTM 05185m >3 0 0 0 Auminum ppm ASTM 05185m >10 <1							
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Oli Changed Sample StatusClient InfoChanged ATTENTIONChanged NORMALWEAR METALSnethodlimit/basecurrenthistory1Mistory2IronppmASTM05185m>500<1	-						
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Marganese ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 100 0 9 3 Calcium ppm ASTM D5185m 0 1 0 0 Phosphorus ppm ASTM D5185m 0 5 41 89 Zinc ppm ASTM D5185m 0 4 36 29 Sulfur ppm ASTM D5185m 23500 18735 22641 14285 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Barium	ppm	ASTM D5185m	90	0	0	0
Magnesium ppm ASTM D5185m 100 0 9 3 Calcium ppm ASTM D5185m 0 1 0 0 Phosphorus ppm ASTM D5185m 0 5 41 89 Zinc ppm ASTM D5185m 0 4 36 29 Sulfur ppm ASTM D5185m 23500 18735 22641 14285 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	0
Calcium pm ASTM D5185m 0 1 0 0 Phosphorus ppm ASTM D5185m 0 5 41 89 Zinc ppm ASTM D5185m 0 4 36 29 Sulfur ppm ASTM D5185m 23500 18735 22641 14285 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Manganese	ppm	ASTM D5185m		0	0	0
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Zinc ppm ASTM D5185m 0 4 36 29 Sulfur ppm ASTM D5185m 23500 18735 22641 14285 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Calcium	ppm	ASTM D5185m	0	1	0	0
Sulfur ppm ASTM D5185m 23500 18735 22641 14285 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1 0 Sodium ppm ASTM D5185m >20 0 2 <1 Potassium ppm ASTM D5185m >20 0 0 0 0 Water % ASTM D6304 >0.05 0.005 0.015 0.007 ppm ASTM D6304 >500 50.1 156.7 72.8 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 1342 1991 303 Particles >6µm ASTM D7647 >80 107 130 30 9 Particles >21µm ASTM D7647 >20 31 34 9 Particles >38µm ASTM D7647 3 0	Phosphorus	ppm	ASTM D5185m	0	5	41	89
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 0 <1	Zinc	ppm	ASTM D5185m	0	4	36	29
Silicon ppm ASTM D5185m >25 0 <1 0 Sodium ppm ASTM D5185m 0 2 <1	Sulfur	ppm	ASTM D5185m	23500	18735	22641	14285
Sodium ppm ASTM D5185m 0 2 <1 Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.05 0.005 0.015 0.007 ppm Water ppm ASTM D6304 >500 50.1 156.7 72.8 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4910 7294 1581 Particles >6µm ASTM D7647 >1300 1342 1991 303 Particles >14µm ASTM D7647 >80 107 130 30 Particles >21µm ASTM D7647 >20 31 34 9 Particles >38µm ASTM D7647 >3 0 0 0 Oli Cleanliness ISO 4406 (c) >/17/13 19/18/14 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2	CONTAMINANTS		method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 0 0 0 Water % ASTM D6304 >0.05 0.005 0.015 0.007 ppm Water ppm ASTM D6304 >500 50.1 156.7 72.8 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4910 7294 1581 Particles >6µm ASTM D7647 >1300 1342 1991 303 Particles >14µm ASTM D7647 >80 107 130 30 Particles >21µm ASTM D7647 >20 31 34 9 Particles >38µm ASTM D7647 >4 1 2 0 Particles >71µm ASTM D7647 >3 0 0 0 0 Oli Cleanliness ISO 4406 (c) >/17/13 19/18/14 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 </td <td>Silicon</td> <td>ppm</td> <td>ASTM D5185m</td> <td>>25</td> <th>0</th> <td><1</td> <td>0</td>	Silicon	ppm	ASTM D5185m	>25	0	<1	0
Water % ASTM D6304 >0.05 0.005 0.015 0.007 ppm Water ppm ASTM D6304 >500 50.1 156.7 72.8 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4910 7294 1581 Particles >6µm ASTM D7647 >1300 1342 1991 303 Particles >14µm ASTM D7647 >80 107 130 30 Particles >21µm ASTM D7647 >20 31 34 9 Particles >38µm ASTM D7647 >4 1 2 0 Particles >71µm ASTM D7647 >3 0 0 0 Oli Cleanliness ISO 4406 (c) >/17/13 19/18/14 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320<	Sodium	ppm	ASTM D5185m		0	2	<1
ppm Water ppm ASTM D6304 >500 50.1 156.7 72.8 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4910 7294 1581 Particles >6µm ASTM D7647 >1300 1342 1991 303 Particles >14µm ASTM D7647 >80 107 1300 30 Particles >21µm ASTM D7647 >20 31 34 9 Particles >38µm ASTM D7647 >40 1 2 0 Particles >71µm ASTM D7647 >4 1 2 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/18/14 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOHg ASTM D8045 1.0 0.28 0.39 0.320	Potassium	ppm				0	0
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 4910 7294 1581 Particles >6µm ASTM D7647 >1300 1342 1991 303 Particles >14µm ASTM D7647 >80 107 1300 30 Particles >14µm ASTM D7647 >80 107 130 30 Particles >21µm ASTM D7647 >20 31 34 9 Particles >38µm ASTM D7647 >4 1 2 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/18/14 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Water	%	ASTM D6304	>0.05	0.005	0.015	0.007
Particles >4µm ASTM D7647 4910 7294 1581 Particles >6µm ASTM D7647 >1300 1342 1991 303 Particles >14µm ASTM D7647 >80 107 130 30 Particles >21µm ASTM D7647 >20 31 34 9 Particles >21µm ASTM D7647 >20 31 34 9 Particles >38µm ASTM D7647 >4 1 2 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 19/18/14 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	ppm Water	ppm	ASTM D6304	>500	50.1	156.7	72.8
Particles >6μm ASTM D7647 >1300 ▲ 1342 ▲ 1991 303 Particles >14μm ASTM D7647 >80 ▲ 107 ▲ 130 30 Particles >21μm ASTM D7647 >20 ▲ 31 ▲ 34 9 Particles >38μm ASTM D7647 >4 1 2 0 Particles >38μm ASTM D7647 >4 1 2 0 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 19/18/14 ▲ 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >14µm ASTM D7647 >80 ▲ 107 ▲ 130 30 Particles >21µm ASTM D7647 >20 ▲ 31 ▲ 34 9 Particles >38µm ASTM D7647 >4 1 2 0 Particles >38µm ASTM D7647 >4 1 2 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 19/18/14 ▲ 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Particles >4µm		ASTM D7647		4910	7294	1581
Particles >21µm ASTM D7647 >20 ▲ 31 ▲ 34 9 Particles >38µm ASTM D7647 >4 1 2 0 Particles >38µm ASTM D7647 >4 1 2 0 Particles >71µm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 19/18/14 ▲ 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Particles >6µm		ASTM D7647	>1300	<u> </u>	1 991	303
Particles >38μm ASTM D7647 >4 1 2 0 Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 19/18/14 ▲ 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Particles >14µm		ASTM D7647	>80	<u> </u>	1 30	30
Particles >71μm ASTM D7647 >3 0 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 19/18/14 ▲ 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Particles >21µm		ASTM D7647	>20	<mark>/</mark> 31	4 34	9
Oil Cleanliness ISO 4406 (c) >/17/13 19/18/14 20/18/14 15/12 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Particles >38µm		ASTM D7647	>4	1	2	0
FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Particles >71µm		ASTM D7647	>3	0	0	0
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.28 0.39 0.320	Oil Cleanliness		ISO 4406 (c)	>/17/13	1 9/18/14	▲ 20/18/14	15/12
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/a	ASTM D8045	1.0	0.28	0.39	0.320
):05:32) Rev: 1	5 0			ontact/Location:	Service Manag	

Report Id: JACJACMO [WUSCAR] 06013380 (Generated: 11/22/2023 20:05:32) Rev: 1

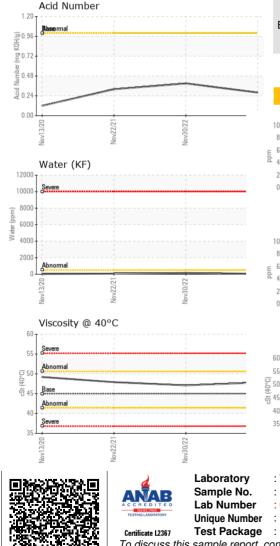
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OIL ANALYSIS REPORT

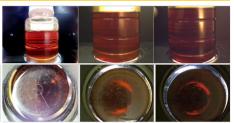




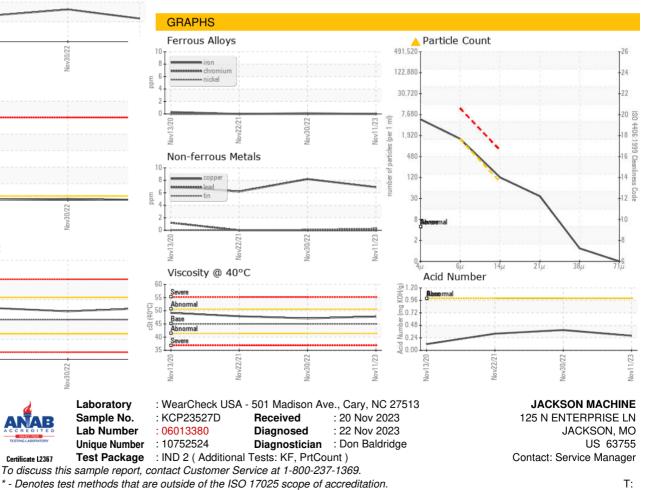


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	47.8	47.1	47.9
SAMPLE IMAGES		method	limit/base	current	history1	history2





Bottom



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

Contact/Location: Service Manager - JACJACMO

F: