

OIL ANALYSIS REPORT



WATER



Machine Id **6526135 (S/N 1061)**

Component

Compressor

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

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count on 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

There is a light concentration of water present in the oil.

Fluid Condition

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

			Mar2023	Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA009072	KCP54720	
Sample Date		Client Info		08 Jan 2024	05 Mar 2023	
Machine Age	hrs	Client Info		17435	15520	
Oil Age	hrs	Client Info		0	0	
Oil Changed	1110	Client Info		N/A	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	<1	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	1	
Aluminum	ppm	ASTM D5185m	>10	2	<1	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m		12	12	
Tin	ppm	ASTM D5185m	>10	0	<1	
Vanadium	ppm	ASTM D5185m	>10	0	0	
Cadmium		ASTM D5185m		0	0	
	ppm		Proch the same			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	3	<1	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m	100	11	2	
Calcium	ppm	ASTM D5185m	0	2	<1	
Phosphorus	ppm	ASTM D5185m	0	48	4	
Zinc	ppm	ASTM D5185m	0	76	24	
Sulfur	ppm	ASTM D5185m	23500	21605	16930	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	2	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	1	<1	
Water	%	ASTM D6304	>0.05	0.140	0.006	
ppm Water	ppm	ASTM D6304	>500	<u> </u>	69.1	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			9162	
Particles >6µm		ASTM D7647	>1300		△ 3923	
Particles >14µm		ASTM D7647	>80		<u>447</u>	
Particles >21µm		ASTM D7647	>20		<u>^</u> 75	
Particles >38µm		ASTM D7647	>4		0	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		△ 20/19/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.38	0.32	



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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 06062704

: KCPA009072 : 10834086

Recieved : 17 Jan 2024 Diagnosed : 24 Jan 2024

Diagnostician : Doug Bogart

Test Package : IND 2 (Additional Tests: KF, PrtCount) 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) **NIPRO OPTICAL** 7 MARCONI ST

IRVINE, CA US 92618

Contact: Service Manager

T: F: