

OIL ANALYSIS REPORT

KAESER CSD 100 2478275 (S/N 1050)

Component Compressor Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

Machine Id

Recommendation

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

Wear

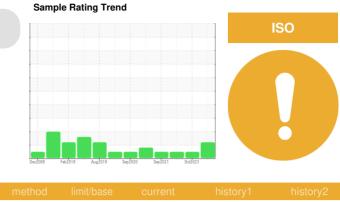
All component wear rates are normal.

Contamination

There is a moderate amount of 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.



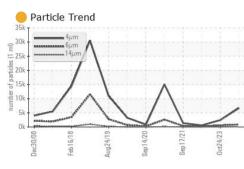
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016543	KCPA006357	KCP45622
Sample Date		Client Info		25 Apr 2024	24 Oct 2023	20 Apr 2022
Machine Age	hrs	Client Info		73521	69176	62063
Oil Age	hrs	Client Info		4345	0	352
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ATTENTION	NORMAL	NORMAL
· · ·			11.0011/10.000			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	1	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>10	0	<1	<1
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>50	0	2	<1
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Antimony	ppm	ASTM D5185m				
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		0	0	<1
Barium	ppm	ASTM D5185m	90	48	0	77
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	90	86	32	92
Calcium	ppm	ASTM D5185m		2	1	4
Phosphorus	ppm	ASTM D5185m	-	0	<1	11
Zinc	ppm	ASTM D5185m		4	0	0
Sulfur	ppm	ASTM D5185m		22212	17484	16343
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	0000				0	<1
	ppm	ASTM D5185m	>25	0	7	
Sodium	ppm	ASTM D5185m	00	38		10
Potassium	ppm	ASTM D5185m	>20	4	2	<1
Water	%	ASTM D6304		0.024	0.011	0.016
ppm Water	ppm	ASTM D6304		248	119	168.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		6683	2450	586
Particles >6µm		ASTM D7647		853	565	175
Particles >14µm		ASTM D7647	>80	<mark> </mark> 89	32	15
Particles >21µm		ASTM D7647	>20	<mark> </mark> 24	11	5
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/17/14	18/16/12	15/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

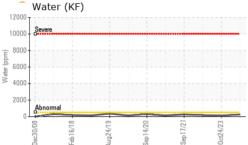
Acid Number (AN) mg KOH/g ASTM D8045 0.4 Report Id: PREOVE [WUSCAR] 06176105 (Generated: 05/14/2024 12:25:59) Rev: 1

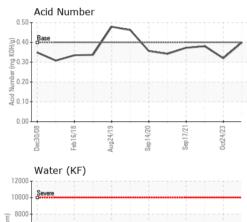
0.40 0.32

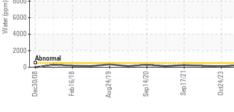
0.38 Contact/Location: WILLIAM VARDEMAN - PREOVE

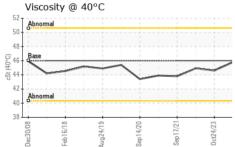












OIL ANALYSIS REPORT

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	NONE	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	46	45.8	44.6	44.92
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color				•		
Bottom						

GRAPHS Ferrous Alloys Particle Count 491.52 10 122,880 30,720 7,680 20 8 6/18 Sep 14/20 Sep 17/2 4406 Jar 30 Der 1,920 Feb 1 1999 Cle Non-ferrous Metals 480 6 120 30 Sep17/21 Sep14/20 Aug24/1 Feb1 Viscosity @ 40°C Acid Number 55 (^B)0.50 HOX 0.40 50 Ë 0.30 45 ළි 0.20 ŝ Abnorma LIN 0.10 40 0.00 P 35 0ct24/23. 0ct24/23 Feb16/18 Aug24/19 Sep14/20 Sep17/21 Dec30/08 Feb16/18 Aug24/19 Sep14/20 Sep 17/21 0ct24/23 Dec30 Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **PRESCRIPTION SOLUTIONS - OPTUM RX** Sample No. : KCPA016543 Received : 10 May 2024 6860 W 115TH ST, SUITE 150 Lab Number : 06176105 Tested : 14 May 2024 OVERLAND PARK, KS Unique Number : 11022158 Diagnosed : 14 May 2024 - Doug Bogart US 66211 Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: WILLIAM VARDEMAN

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)

Report Id: PREOVE [WUSCAR] 06176105 (Generated: 05/14/2024 12:26:00) Rev: 1

Certificate 12367

Contact/Location: WILLIAM VARDEMAN - PREOVE

william.vardeman@optum.com

T:

F: