

OIL ANALYSIS REPORT

KAESER SX 5 5818677 (S/N 1609) Component

Compressor

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

DIAGNOSIS

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

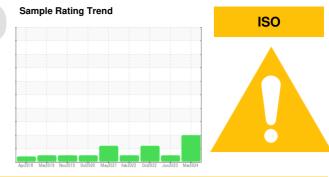
All component wear rates are normal.

Contamination

There is a high 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.



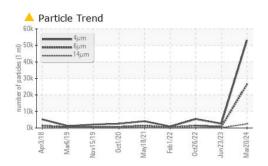
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013968	KCPA005369	KCP40334
Sample Date		Client Info		20 Mar 2024	23 Jun 2023	26 Oct 2022
Machine Age	hrs	Client Info		37534	32668	29430
Oil Age	hrs	Client Info		0	0	4153
Oil Changed		Client Info		Not Changd	N/A	Changed
Sample Status				ABNORMAL	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	1	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	1	0	<1
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	1	1	4
Tin	ppm	ASTM D5185m	>10	<1	0	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	0	0
Barium	ppm	ASTM D5185m	90	8	52	4
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	50	58	46
Calcium	ppm	ASTM D5185m	0	2	2	<1
Phosphorus	ppm	ASTM D5185m	0	0	2	3
Zinc	ppm	ASTM D5185m	0	8	5	12
Sulfur	ppm	ASTM D5185m	23500	23046	19694	22883
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	0
Sodium	ppm	ASTM D5185m		11	6	16
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water	%	ASTM D6304	>0.05	0.016	0.022	0.005
ppm Water	ppm	ASTM D6304		169	221.3	54.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		53064	2620	5345
Particles >6µm		ASTM D7647	>1300	<u> </u>	746	1433
Particles >14µm		ASTM D7647	>80	<u> </u>	49	87
Particles >21µm		ASTM D7647	>20	<u> </u>	13	21
Particles >38µm		ASTM D7647	>4	<mark> </mark> 10	0	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	A 23/22/18	19/17/13	20/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.35	0.35	0.33
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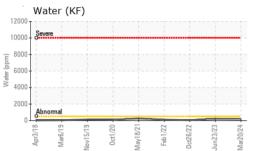
Report Id: OLDCOM [WUSCAR] 06132017 (Generated: 04/02/2024 13:42:46) Rev: 1

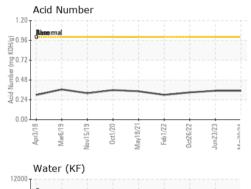
Contact/Location: KEITH HULS - OLDCOM

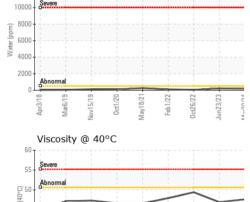
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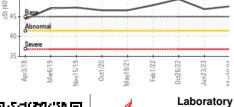












Certificate L2367



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	LIGHT
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
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 45	current 47.6	history1 46.9	history2 49.4
	cSt					
Visc @ 40°C	cSt	ASTM D445	45	47.6	46.9	49.4

GRAPHS Ferrous Alloys A Particle Count 10 491 520 122,880 30,720 0. 7,680 20 8 Feb1/22 /av18/2 50/20u Mar20/74 Inv15/1 Anr3/ 1406 per 1 1,920 Non-ferrous Metals 480 40 120 30 ۲<u>و</u> 30 10 0 Apr3/18 Mav18/2 c//1/4= un23/23 /lar20/24 0ct1/2 38/ Viscosity @ 40°C Acid Number 60 (B/1.20 HOX 0.96 Se 55 () 00 50 Abnorma Ë 0.72 · 은 0.48 45 쳜 LIN 0.24 40 Se 0.00 PC 35 Mar20/24 -Mar6/19 0ct1/20 Feb1/22 0ct1/20 May18/21. Feb1/22 lar20/24 May18/21 Mar6/19 Nov15/19 Vov15/19 Anr3/1 **OLD DOMINION FREIGHT LINES** : WearCheck USA - 501 Madison Ave., Cary, NC 27513 5601 HOLLY ST : KCPA013968 Received : 28 Mar 2024 COMMERCE CITY, CO Lab Number : 06132017 Tested : 29 Mar 2024 : 02 Apr 2024 - Angela Borella US 80022 Unique Number : 10951482 Diagnosed Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: KEITH HULS KEITH.HULS@ODFL.COM 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)

Sample No.

T:

F: