

OIL ANALYSIS REPORT

Sample Rating Trend



KAESER 8685446

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

DIAGNOSIS

Recommendation

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.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

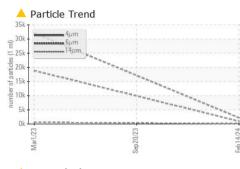
Fluid Condition

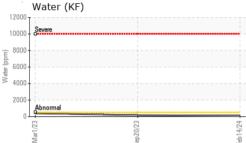
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

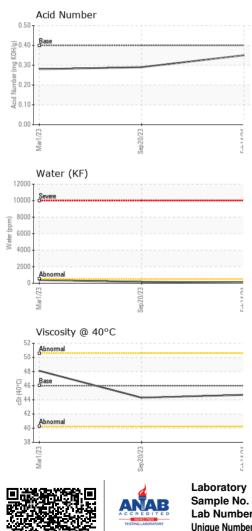
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015446	KCPA006425	KCP54307
Sample Date		Client Info		14 Feb 2024	20 Sep 2023	01 Mar 2023
Machine Age	hrs	Client Info		11655	8124	3146
Oil Age	hrs	Client Info		6765	0	3146
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
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	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	7	5	2
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
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
Barium	ppm	ASTM D5185m	90	0	14	19
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	17	35	41
Calcium	ppm	ASTM D5185m	2	2	3	3
Phosphorus	ppm	ASTM D5185m		2	4	6
Zinc	ppm	ASTM D5185m		17	0	4
Sulfur	ppm	ASTM D5185m		16209	21954	17318
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		15	10	11
Potassium	ppm	ASTM D5185m	>20	2	3	2
Water	%	ASTM D6304	>0.05	0.009	0.016	0.038
ppm Water	ppm	ASTM D6304	>500	93	166.5	384.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2200		32109
Particles >6µm		ASTM D7647	>1300	973		1 8848
Particles >14µm		ASTM D7647	>80	107		6 04
Particles >21µm		ASTM D7647	>20	A 22		13
Particles >38µm		ASTM D7647	>4	0		0
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/17/14		A 22/21/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.35	0.29	0.28

-COMPRESSORS

Built for a lifetime.







OIL ANALYSIS REPORT

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	🔺 MODER	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	44.7	44.3	48.1
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color					a.	
Bottom						\bigcirc

A Particle Count Ferrous Alloys 491 520 122,880 nicke 30,720 7,680 20 8 Feb14/24 1406 Mar1 (per 1 1,920 6661 Non-ferrous Metals 480 10 120 30 Mar1/7: ep20/23 Feb 14/24 Viscosity @ 40°C Acid Number 55 (B) 0.50 HOX 0.40 Base Ë 0.30 40°(1 45 ළි 0.20 ŝ Abnorma 40 2 0.10 0.00 PC 35 Feb14/24. Mar1/23 Sep20/23 4/24 Sep20/23 Mar¹ -8 **MENASHA PACKAGING** : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA015446 Received : 22 Feb 2024 225 BROOKS AVE Lab Number : 06097700 Tested : 23 Feb 2024 NEENAH, WI Unique Number : 10890553 Diagnosed : 25 Feb 2024 - Don Baldridge US 54956 Test Package : IND 2 (Additional Tests: KF, PrtCount) Contact: Service Manager SERVICE@NORTHERNCOMPRESSOR.COM To discuss this sample report, contact Customer Service at 1-800-237-1369. T:

* - 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)

Certificate L2367

Contact/Location: Service Manager - MENNEE

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