

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id **KAESER 5070645**

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

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	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013355	KCPA007651	KCP42006
Sample Date		Client Info		07 May 2024	18 Oct 2023	17 Feb 2022
Machine Age	hrs	Client Info		27751	27750	14692
Dil Age	hrs	Client Info		0	0	3000
Dil Changed	1115	Client Info		0 Changed	0 N/A	Changed
Sample Status		Client into		ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	0	0	0
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	2
ead		ASTM D5185m	>10	0		0
	ppm			0	<1 6	1
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>50	-	6 <1	
	ppm		>10	<1		<1
Antimony	ppm	ASTM D5185m				0
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	2
Barium	ppm	ASTM D5185m	90	12	0	67
Volybdenum	ppm	ASTM D5185m	0	0	0	0
Vanganese	ppm	ASTM D5185m		0	<1	<1
Vagnesium	ppm	ASTM D5185m	100	57	3	92
Calcium	ppm	ASTM D5185m	0	<1	1	2
Phosphorus	ppm	ASTM D5185m	0	2	5	9
Zinc	ppm	ASTM D5185m	0	26	31	<1
Sulfur	ppm	ASTM D5185m	23500	22528	17981	18842
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	12	<1
Sodium	ppm	ASTM D5185m		15	2	4
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.05	0.017	0.004	0.021
opm Water	ppm	ASTM D6304	>500	172	42.6	215.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		2740	12698	4220
Particles >6µm		ASTM D7647	>1300	661	A 3591	640
Particles >14µm		ASTM D7647	>80	91	1 68	34
Particles >21µm		ASTM D7647	>20	<u> </u>	4 35	9
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	— 19/17/14	A 21/19/15	16/12
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN) 49:34) Rev: 1	mg KOH/g	ASTM D8045	1.0	0.40	0.40 htt/Location: MA	0.44

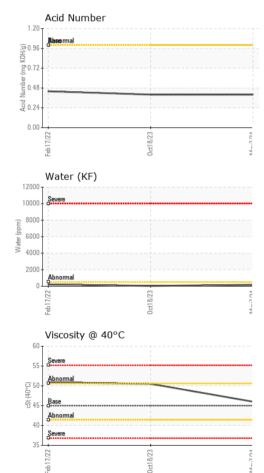
Report Id: CALCUP [WUSCAR] 06176110 (Generated: 05/14/2024 09:49:34) Rev: 1

Contact/Location: MATT ? - CALCUP



Particle Trend 12 Ê 10 mber of particles 8k 6k 4 2 0 0ct18/23 leb1 Water (KF) 12000 10000 800 6000





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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	46.0	50.5	50.9
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS Ferrous Alloys Particle Count 491.5 10 122,880 icke 30,720 7,680 20 8 May7/24 Feb17/22 lct18/23 4406 (per 1 1,920 Non-ferrous Metals 480 10 120 30 Feb17/22 0ct18/23 Viscosity @ 40°C Acid Number 60 (B/1.20 HOX 0.96 Se 55 Abnorm E 0.72 50 · 은 0.48 45 쳜 Ja 0.24 40 Seve 0.00 PC 35 May7/24 Feb17/22 0ct18/23 0ct18/23 Feb17/22 7/24 **CALIFORNIA DENTAL ARTS LLC** : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA013355 Received : 10 May 2024 20421 PACIFICA DR Lab Number : 06176110 Tested : 14 May 2024

: 14 May 2024 - Doug Bogart



Unique Number : 11022163 Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Laboratory

Sample No.

* - 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)

Diagnosed

CUPERTINO, CA US 95014 Contact: MATT matt@caldentalarts.com T: F:

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