

OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id **KAESER CSD 100S 4030753 (S/N 1262)** Component

Component Compressor Fluid

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

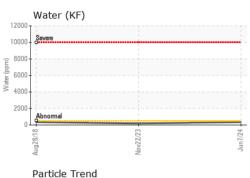
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA018417	KCPA010273	KCP12284
Sample Date		Client Info		07 Jun 2024	22 Nov 2023	28 Aug 2018
Machine Age	hrs	Client Info		47825	45841	26333
Oil Age	hrs	Client Info		3000	0	3149
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	<1
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel		ASTM D5185m	>3	<1	0	<1
	ppm			<1	0	0
Titanium Silver	ppm	ASTM D5185m	>3 >2		0	0
	ppm	ASTM D5185m		<1		
Aluminum	ppm	ASTM D5185m		2	0	<1
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m		2	0	2
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	82	81	98
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	90	98	104
Calcium	ppm	ASTM D5185m	0	0	3	3
Phosphorus	ppm	ASTM D5185m	0	0	<1	0
Zinc	ppm	ASTM D5185m	0	5	0	4
Sulfur	ppm	ASTM D5185m	23500	21025	18813	19175
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	<u>⊳</u> 25	1	0	<1
Sodium	ppm	ASTM D5185m	220	24	10	24
Potassium		ASTM D5185m	>20	8	1	9
Water	ppm %	ASTM D5185III		o 0.034	0.018	9 0.035
ppm Water	ppm	ASTM D6304 ASTM D6304		346	190	350
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm	200	ASTM D7647	- mnivbase	10026	18446	16103
Particles >6µm		ASTM D7647 ASTM D7647	>1300	984	6605	1741
						-
Particles >14µm		ASTM D7647		25	▲ 693	137
Particles >21µm		ASTM D7647		4	▲ 207	4 1
Particles >38µm		ASTM D7647		0	7	2
Particles >71µm		ASTM D7647		0	1	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	21/17/12	<u> </u>	18/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.463	0.36 cation: M_SILV	0.459

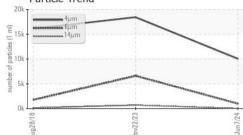
Report Id: COSSANCA [WUSCAR] 06213490 (Generated: 06/21/2024 17:43:16) Rev: 1

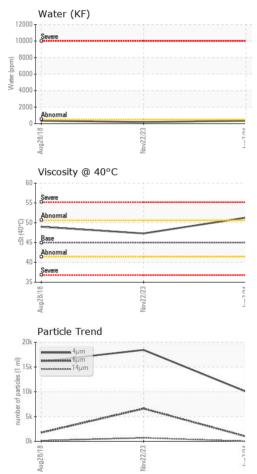
Contact/Location: M. SILVA - COSSANCA



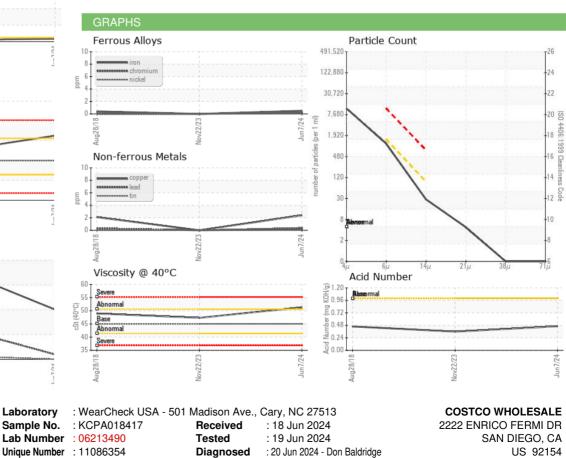
OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
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	45	51.3	47.3	48.98
SAMPLE IMAGES	\$	method	limit/base	current	history1	history2
Color					a.	
Bottom						



Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate 12367 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: COSSANCA [WUSCAR] 06213490 (Generated: 06/21/2024 17:43:16) Rev: 1

Laboratory

Sample No.

Contact/Location: M. SILVA - COSSANCA

Т:

F:

Contact: M. SILVA

msilva@costco.com