

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id 5306229 (S/N 1008) Component

Compressor

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

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.

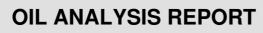
ATION	method	limit/base	current	history1	history2
	Client Info		KCPA008657	KCP14790	
	Client Info		05 Jan 2024	18 Mar 2020	
hrs	Client Info		41668	29171	
hrs	Client Info		0	10568	
	Client Info		N/A	Changed	
			ABNORMAL	ATTENTION	
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	>50	0	0	
ppm	ASTM D5185m	>10	<1	0	
ppm	ASTM D5185m	>3	0	0	
ppm	ASTM D5185m	>3	0	0	
ppm	ASTM D5185m	>2	0	0	
ppm	ASTM D5185m	>10	2	0	
ppm	ASTM D5185m	>10	0	0	
ppm	ASTM D5185m	>50	10	0	
ppm	ASTM D5185m	>10	0	<1	
ppm	ASTM D5185m			0	
ppm	ASTM D5185m		0	0	
ppm	ASTM D5185m		0	0	
	method	limit/base	current	history1	history2
ppm	ASTM D5185m	0	0	1	
ppm	ASTM D5185m	90	3	0	
ppm	ASTM D5185m	0	0	0	
ppm	ASTM D5185m		0	0	
ppm	ASTM D5185m	100	0	0	
ppm	ASTM D5185m	0	<1	<1	
ppm	ASTM D5185m	0	46	5	
ppm	ASTM D5185m	0	0	0	
ppm	ASTM D5185m	23500	19997	23	
	method	limit/base	current	history1	history2
		limit/base		history1	history2
ppm ppm			current 0 0		history2
ppm ppm	ASTM D5185m ASTM D5185m		0	1	
ppm	ASTM D5185m ASTM D5185m	>25 >20	0 0	1 0	
ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >20	0 0 <1	1 0 <1	
ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>25 >20 >0.05	0 0 <1 0.004	1 0 <1 0.008	
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>25 >20 >0.05 >500	0 0 <1 0.004 41	1 0 <1 0.008 87.9	
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>25 >20 >0.05 >500	0 0 <1 0.004 41 current	1 0 <1 0.008 87.9 history1	 history2
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>25 >20 >0.05 >500 limit/base	0 0 <1 0.004 41 current 7216	1 0 <1 0.008 87.9 history1 9794	 history2
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300	0 0 <1 0.004 41 <u>current</u> 7216 ▲ 2564	1 0 <1 0.008 87.9 history1 9794 ▲ 1710	 history2
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80	0 0 <1 0.004 41 <u>current</u> 7216 ▲ 2564 ▲ 246	1 0 <1 0.008 87.9 history1 9794 ▲ 1710 35	 history2
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20 >4	0 0 <1 0.004 41 <u>current</u> 7216 ▲ 2564 ▲ 246 ▲ 64	1 0 <1 0.008 87.9 history1 9794 ▲ 1710 35 8	 history2
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20 >4	0 0 <1 0.004 41 <u>current</u> 7216 ▲ 2564 ▲ 246 ▲ 246 ▲ 3	1 0 <1 0.008 87.9 history1 9794 ▲ 1710 35 8 2	 history2
ppm ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>25 >20 >0.05 >500 limit/base >1300 >80 >20 >4 >3	0 0 <1 0.004 41 <u>current</u> 7216 ▲ 2564 ▲ 246 ▲ 64 3 0	1 0 <1 0.008 87.9 history1 9794 ▲ 1710 35 8 2 2 2	
	hrs hrs hrs ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	Client Info Client Info hrs Client Info Client Info Client Info Client Info Client Info Client Info Client Info Client Info ASTM D5185m ppm ASTM D5185m	Client InfoClient InfoInrsClient InfoInrsClient InfoInrsClient InfoClient InfoImit/baseClient InfoImit/baseppmASTM D5185mPpmASTM D5185m </td <td>Client Info KCPA008657 Client Info 05 Jan 2024 hrs Client Info 41668 hrs Client Info 0 Client Info N/A Pom ASTM D5185m >50 ppm ASTM D5185m >10 <1</td> ppm ASTM D5185m >3 0 ppm ASTM D5185m >3 0 ppm ASTM D5185m >3 0 ppm ASTM D5185m >10 2 ppm ASTM D5185m >10 0 ppm ASTM D5185m 0 0 ppm ASTM D5185m 0	Client Info KCPA008657 Client Info 05 Jan 2024 hrs Client Info 41668 hrs Client Info 0 Client Info N/A Pom ASTM D5185m >50 ppm ASTM D5185m >10 <1	Client Info KCPA008657 KCP14790 Client Info 05 Jan 2024 18 Mar 2020 hrs Client Info 41668 29171 hrs Client Info 0 10568 Client Info 0 10568 Client Info N/A Changed Client Info MabNORMAL ATTENTION method limit/base current history1 ppm ASTM D5185m >50 0 0 ppm ASTM D5185m >10 <1

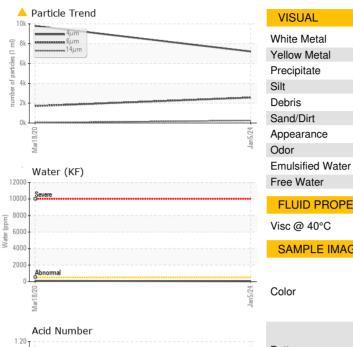
Report Id: TREOXN [WUSCAR] 06062698 (Generated: 01/19/2024 10:59:28) Rev: 1

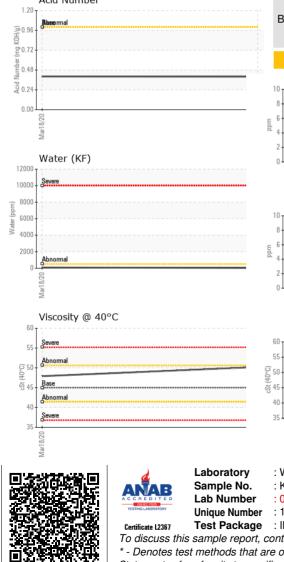
Contact/Location: Service Manager - TREOXN



Built for a lifetime."







		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
ellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
ppearance	scalar	*Visual	NORML	NORML	NORML	
Ddor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
ree Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	TIES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D445	45	50.2	47.9	
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
GRAPHS						
Ferrous Alloys			491 520	Particle Count		_2
iron			491,520	Particle Count		T ²
			491,520	Particle Count		
iron chromium			491,520	Particle Count		-2'
iron chromium			491,520 122,880 30,720	Particle Count		-2'
iron iron iron iron			491,520 122,880 30,720 7,680	Particle Count		-2 -2
iron iron iron iron			491,520 122,880 30,720 7,680	Particle Count		-2 -2
iron chromium nickel			491,520 122,880 30,720 7,680	Particle Count	-	-2 -2
iron iron iron iron	ls		491,520 122,880 30,720 7,680	Particle Count		-2 -2
iron chromium nickel 02/62128 Non-ferrous Metal	ls		491,520 122,880 30,720 7,680	Particle Count		-2 -2
iron chromium nickel	ls		491,520 122,880 30,720 7,680 720 122,880 122,880 7,680 720 122,880 122,980 122,990 122,990 122,990 122,990 122,990 122,990 122,990 122,990 122,990 122,990 122,990 122,990 122,990 122,990 120	Particle Count		-2 -2
Non-ferrous Metal	ls		491,520 122,880 30,720 7,680	Particle Count		-2- -2
Non-ferrous Metal	ls		491,520. 122,880 30,720 7,680 40 50 50 122,880 120,880 120,880 120,880 120,880 120,880 120,890 10			-2 -2 -11 -11 -11 -11 -11
iron chromium nickel Non-ferrous Metal	ls		491,520 122,880 30,720 7,680 72 1,920 50 1,920 50 1,920 50 1,920 50 1,920 50 1,920 50 50 50 50 50 50 50 50 50 50 50 50 50	Particle Count		-22 -22 -22 -16 -16 -14 -12 -10 -10
iron chromium nickel Non-ferrous Metal	ls		491,520 122,880 30,720 7,680 72 1,920 50 1,920 50 1,920 50 1,920 50 1,920 50 1,920 50 50 50 50 50 50 50 50 50 50 50 50 50			-2 -2 -11 -11 -11 -11 -11
iron chromium nickel Non-ferrous Metal	ls		491,520. 122,880 30,720 7,680 42 122,880 120,980 120,990 1	Bbreenal		-2 -2 -2 -11 -11 -11 -11 -11 -11 -11 -11
iron chromium nickel Non-ferrous Metal	ls		491,520 122,880 30,720 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,920 9	Bbreenal	14μ 21μ	-2 -2 -11 -11 -11 -11 -11
Non-ferrous Metal	ls		491,520 122,880 30,720 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,920 9	Bereemal		-2 -2 -2 -11 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
iron chromium nickel	ls		491,520 122,880 30,720 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,920 9	Bereemal Acid Number		-2 -2 -2 -11 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1 -1
Non-ferrous Metal	ls		491,520 122,880 30,720 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,920 9	Bereemal Acid Number		-2- -2- -2- -10 -10 -10 -10 -10 -10 -10 -10 -10 -1
Viscosity @ 40°C	ls		491,520 122,880 30,720 7,680 7,680 7,680 7,680 7,680 7,680 7,680 7,920 9	Bereemal Acid Number		-2- -2- -2- -10 -10 -10 -10 -10 -10 -10 -10 -10 -1
Non-ferrous Metal	ls		491,520. 122,880 30,720 7,680 42 122,880 120,980 120,990 1	Bereemal Acid Number		-2- -2- -2- -10 -10 -10 -10 -10 -10 -10 -10 -10 -1

		Mar18.		Jan 5	Mar18	Jan 5.
	Laboratory	: WearCheck USA -	501 Madison Av	/e., Cary, NC 275 [.]	13	TREE TOP FOODS
ANAB	Sample No.	: KCPA008657	Recieved	: 17 Jan 2024		1250 E 3RD ST
Certificate 12367 To discuss th * - Denotes te	Lab Number	: 06062698	Diagnosed	: 19 Jan 2024		OXNARD, CA
TESTING LABORATORY	Unique Number	: 10834080	Diagnostician	: Don Baldridge		US 93030
Certificate L2367	Test Package	: IND 2 (Additional ⁻	Tests: KF, PrtCo	unt)		Contact: Service Manager
To discuss th	nis sample report, c	contact Customer Ser	vice at 1-800-23	7-1369.		
* - Denotes te	est methods that ar	re outside of the ISO	17025 scope of a	accreditation.		T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Service Manager - TREOXN