

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id

8414705 (S/N 1938) Component Compressor

Compressor Fluid 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

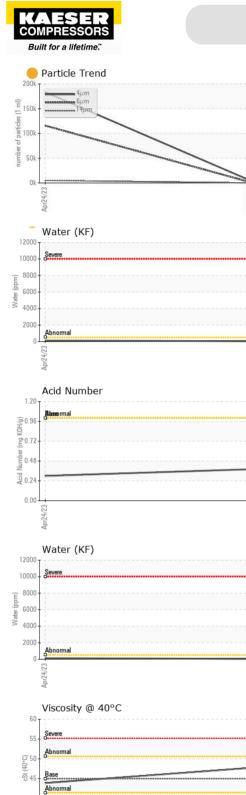
There is a moderate amount of particulates present in the oil.

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		KCPA008549	KCP52384	
Sample Date		Client Info		14 Feb 2024	24 Apr 2023	
Machine Age	hrs	Client Info		6925	2638	
Oil Age	hrs	Client Info		0	3000	
Oil Changed		Client Info		N/A	Changed	
Sample Status				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	<1	
Chromium	ppm		>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m		2	0	
Lead		ASTM D5185m	>10	0	0	
	ppm			11	5	
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>50 >10		0	
	ppm		>10	<1		
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	100	1	25	
Calcium	ppm		0	4	0	
Phosphorus	ppm	ASTM D5185m	0	3	4	
Zinc	ppm	ASTM D5185m	0	<1	9	
Sulfur	ppm	ASTM D5185m	23500	19850	19308	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	1	
Sodium	ppm	ASTM D5185m		0	4	
Potassium	ppm	ASTM D5185m	>20	2	4	
Water	%	ASTM D6304	>0.05	0.004	0.012	
ppm Water	ppm	ASTM D6304	>500	47	129.4	
FLUID CLEANLIN	ESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647		5165	183425	
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1629	<u> </u>	
Particles >14µm		ASTM D7647	>80	<mark> </mark> 100	6 5107	
Particles >21µm		ASTM D7647	>20	<mark> </mark> 24	1 16	
Particles >38µm		ASTM D7647	>4	1	6	
Particles >71µm		ASTM D7647	>3	0	1	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<mark>)</mark> 20/18/14	▲ 25/24/20	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.38	0.30	

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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Precipitate	scalar	*Visual	NONE	NONE	NONE	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	LIGHT	NONE	
Concession of the local division of the loca	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Feb14/24	Appearance	scalar	*Visual	NORML	NORML	NORML	
Feb	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
	Free Water	scalar	*Visual		NEG	NEG	
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D445	45	47.7	43.9	
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Feb14/24	Color						no image
	Bottom						no image
	GRAPHS						
	Ferrous Alloys				Particle Count		
	10ironi			491,520			1 ²⁶
5	chromium			122,880			-24
C-1110				30,720			22
2	2			30,720-			-22
	0			7,680	N.		-20 -
	Apr24/23			Feb14/24.	1		19
	Apri			음 이 Sa 1,520.			-18 - -18 - -14 - -12 - -18 -1
	Non-ferrous Meta	ls		480 ·			16 6
	15 copper]			Feb14/24 1500-1501 [feb14/24 1500-1501 [feb14/24			-14
	10 -						
				30.			-12
5	5-			8.	Sizvenemal	/	-10
L110	0 L						
1	Apr24/23			Feb14/24			
				문 0·	4 6µ	14µ 21µ	38µ 71µ
	Viscosity @ 40°C				Acid Number	1 1pt 2 1pt	50μ /1μ
	60 Severe			(B) 1.20 ₽	Basermal		
				(j) 1.20- (j) 1.20- (j) 0.96- (j) 0.72- (j) 0.			
	Base			E 0.72			
	40+			E U.48			
	35						
VC	Apr24/23			Feb14/24	Apr24/23		Feb14/24
Color 1.4.15	Aprź			Feb1	Apri		Feb 1
	: WearCheck USA - 50 : KCPA008549 : 06145296 : 10970104	1 Madiso Recei Teste Diagr	Baldridge	GRAYMATTER ROBOTICS 349 168TH ST GARDENA, CA US 90248 Contact: Service Manager			
nique Number	: IND 2 (Additional Tes					0	

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