

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

8164845 (S/N 1187)

Component Compressor Fluid KAESER SIGMA (OEM) S-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.

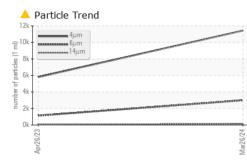
Fluid Condition

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

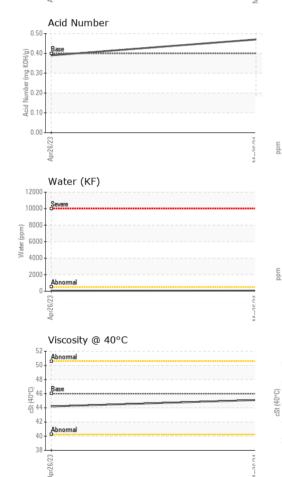
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC130484	KCP53673	
Sample Date		Client Info		26 Mar 2024	26 Apr 2023	
Machine Age	hrs	Client Info		14865	9471	
Oil Age	hrs	Client Info		5000	4100	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	<1	
Titanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	0	
Lead	ppm	ASTM D5185m	>10	0	0	
Copper	ppm	ASTM D5185m	>50	4	6	
Tin	ppm	ASTM D5185m	>10	1	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	90	2	2	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m	-	4	3	
Zinc	ppm	ASTM D5185m		0	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	0	
Sodium	ppm	ASTM D5185m		2	<1	
Potassium	ppm	ASTM D5185m	>20	_ <1	<1	
Water	%	ASTM D6304	>0.05	0.007	0.005	
ppm Water	ppm	ASTM D6304		73	58.4	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		11437	5802	
Particles >6µm		ASTM D7647	>1300	<u> </u>	1131	
Particles >14µm		ASTM D7647	>80	▲ 136	61	
Particles >21µm		ASTM D7647		<u>^</u> 24	20	
Particles >38µm		ASTM D7647	>4	0	1	
Particles >71µm		ASTM D7647		0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u> </u>	20/17/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.47	0.39	
AGIO MUTTIDEL (AIN)	ing NOR/g	AU I IVI DOU40	0.4	0.47	0.53	



Built for a lifetime.







OIL ANALYSIS REPORT

White Metal Yellow Metal	scalar					
		*Visual	NONE	NONE	NONE	
	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	LIGHT	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
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	history
Visc @ 40°C	cSt	ASTM D445	46	45.1	44.2	
SAMPLE IMAGE	S	method	limit/base	current	history1	history
Color				a. (19)		no image
Bottom						no imag
GRAPHS						
Ferrous Alloys					:	
8- iron						
C province pickel			122,880	1		
B 4-			30,720			
2						
0				1		
pr26/2			ar26/2 per 1 n			
	1-		M licles (r	1	N	
Non-ferrous Meta	IIS		12 480			
copper				-	1	
c tin						
⁸ 4						
2			8	Sereve mal		
0 2						
Apr26/			ar26/			
			~ 04	μ _{6μ} Acid Number	14µ 21µ	38µ 7
55 T						
30			HO 0.40	Base	*****	
9 45 + Base			<u>د</u> 0.30			
성 40 - Abnormal			đ 0.20	+		
			PPO 0.10			
Apr26/23			0.00	* 1		
			Mar26/24	Apr26/23		
	Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPER Visc @ 40°C SAMPLE IMAGE Color Bottom GRAPHS Ferrous Alloys	Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Free Water scalar FLUID PROPERTIES Visc @ 40°C cSt SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys 10 10 10 10 10 10 10 10 10 10	Sand/Dirt scalar *Visual Appearance scalar *Visual Emulsified Water scalar *Visual Free Water scalar *Visual FLUID PROPERTIES method Visc @ 40°C cSt ASTM D445 SAMPLE IMAGES method Color Bottom GRAPHS Ferrous Alloys 10 10 10 10 10 10 10 10 10 10	Sand/Dirt scalar *Visual NONE Appearance scalar *Visual NORML Odor scalar *Visual NORML Emulsified Water scalar *Visual >0.05 Free Water scalar *Visual >0.05 Free Water scalar *Visual >0.05 FLUID PROPERTIES method limit/base Visc @ 40°C cSt ASTM D445 46 SAMPLE IMAGES method limit/base Color Standom gamma gamma GRAPHS Ferrous Alloys gamma gamma Ferrous Alloys gamma gamma gamma gamma Mon-ferrous Metals gamma gamma gamma gamma Viscosity @ 40°C gamma gamma gamma gamma gamma Strong gamma gamma gamma gamma gamma gamma Graphi gamma gamma gamma gamma gamma gamma gamma Strong gamma gamma<	Sand/Dirit scalar *Visual NONE NONE Appearance scalar *Visual NORML NORML Odor scalar *Visual NORML NORML Emulsified Water scalar *Visual >0.05 NEG Free Water scalar *Visual >0.05 NEG Free Water scalar *Visual OUS NEG Free Water scalar *Visual Current Visc @ 40°C cSt ASTM D445 46 45.1 SAMPLE IMAGES method limit/base current Color Bottom Corpor GRAPHS Ferrous Alloys Ferrous Alloys OUS OUS OUS OUS OUS OUS OUS OUS OUS OUS	Sand/Dirt scalar Visual NONE NONE NONE NONE Appearance scalar Visual NORML NORML NORML NORML Codor scalar Visual NORML NORML NORML NORML Emulsified Water scalar Visual NORML NORML NORML Sector Scalar Visual NORML NORML NORML Visc @ 40°C cSt ASTM D445 46 45.1 44.2 SAMPLE IMAGES method limit/base current history1 Color Bottom Particle Count GRAPHS Ferrous Alloys Viscosity @ 40°C Viscosity @ 40°C

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)

T: F:

Certificate L2367

Contact/Location: Service Manager - TRATHO Page 2 of 2