

OIL ANALYSIS REPORT

Sample Rating Trend

ISO

Machine Id 6586164 (S/N 1016) Component

Compressor

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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.

			Mar2021	Jan2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP46119	KCP34646	
Sample Date		Client Info		09 Jan 2023	24 Mar 2021	
Machine Age	hrs	Client Info		8929	5856	
Oil Age	hrs	Client Info		1000	3645	
Dil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	<1	0	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	
Fitanium	ppm	ASTM D5185m	>3	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	<1	<1	
_ead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>50	7	3	
Fin	ppm	ASTM D5185m	>10	0	<1	
Antimony	ppm	ASTM D5185m			0	
√anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ppin		line it /le e e e	-	-	
		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m	0	0	10	
Barium	ppm	ASTM D5185m	90	2	14	
Volybdenum	ppm	ASTM D5185m	0	0	0	
Manganese	ppm	ASTM D5185m		<1	0	
Vagnesium	ppm	ASTM D5185m	100	44	61	
Calcium	ppm	ASTM D5185m	0	0	<1	
Phosphorus	ppm	ASTM D5185m	0	2	2	
Zinc	ppm	ASTM D5185m	0	12	3	
Sulfur	ppm	ASTM D5185m	23500	22441	16989	
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	<1	
Sodium	ppm	ASTM D5185m		18	19	
Potassium	ppm	ASTM D5185m	>20	0	2	
Nater	%	ASTM D6304	>0.05	0.018	0.018	
opm Water	ppm	ASTM D6304	>500	187.3	183.3	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		9440		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<u> </u>		
Particles >21µm		ASTM D7647	>20	<mark>人</mark> 386		
Particles >38µm		ASTM D7647	>4	<mark>▲</mark> 34		
Particles >71µm		ASTM D7647	>3	1		
Dil Cleanliness		ISO 4406 (c)	>/17/13	A 20/19/17		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.32	0.337	
00.40) D			<u> </u>			

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Contact/Location: DEVON KEARNEY - GANSANCA



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Particle Trend	VISUAL		method	limit/base	current	history1	history2
<u>4µm</u>	White Metal	scalar	*Visual	NONE	LIGHT	NONE	
EOK	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
29 βk 14μm 14μm 14μm 14μm	Precipitate	scalar	*Visual	NONE	NONE	NONE	
č. 4k	Silt	scalar	*Visual	NONE	NONE	NONE	
and the second s	Debris	scalar	*Visual	NONE	NONE	▲ MODER	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
0k –	Appearance	scalar	*Visual	NORML	NORML	NORML	
Mar24/2'	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	
Water (KF)	Free Water	scalar	*Visual		NEG	NEG	
10000 - Severe	FLUID PROPER	TIES	method	limit/base	current	history1	history2
低 8000	Visc @ 40°C	cSt	ASTM D445	45	48.2	46.4	
-#2 × 4000	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
2000 Abnormal							
- Ma2421	Color						no image
Acid Number	Bottom				()		no image
물 0.72 평	GRAPHS					, 	
радици, 48- иници, 199 9 0. 24-	Ferrous Alloys				Particle Cour	nt	
0.24	10			491,520	I		T ²⁶
0.00	8 - chromium			122,880	-		-24
Mar2421	E 6 minister nickel						
×	2			30,720	1		+22
Water (KF)				7,680			-20 👳
12000 10000 Severe	Mar24/21			ESC(per 1 m) 1700 1700 1700 1700 1700 1700 1700 170			-18 0 4406:1999 Cleanliness Code -18 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14
10000	- Maria			la (pe	N.	1	6:199
E 8000	Non-ferrous Meta	als		ottied, 480			-16 Clea
4 4 4 0000	10 copper			jo _iaj 120	-		-14 es
1000							Code
2000 - Abnormal				30			
01 7	2				Bisrese nal		10
Mar24/21				£ 2			-8
V/	Mar24,			Jan9/23			
Viscosity @ 40°C	Viscosity @ 40°C			0 4	μ 6μ	14µ 21µ	38µ 71µ
Severe	60 T			- 1.20	Acid Number	-	
Ahnormal	55 - Severe			(B/HO) 0.96	Basermal		
(2) 50 + 0 (2) 50 + 0 (3) 45 + Base	S 45 + Abnormal			٤ 0.72			
ල් 45 _ <mark>Base</mark> Abnomal	Abriormai		*****	40.48 P 0.24 V 0.24			
40 - Severe	Severe			4 poy			
35	5				4/21		Jan9/23 -
Mar24/2	Mar24/2			Jan 9/23	Mar24/2		JanG
Unique Nun Certificate L2367 Test Pack To discuss this sample re, * - Denotes test methods		Rece Teste Diagr ests: KF, F vice at 1-8 17025 sco	ived : 10 id : 11 nosed : 12 PrtCount) : 800-237-1365 : ope of accred :) Jan 2023 I Jan 2023 Jan 2023 - Don 9. Iitation.	Ū	SAN Contact: DEV devon.kearn	GANTRI ST, SUITE 222 LEANDRO, CA US 94577 'ON KEARNEY ey@gantri.com T: F: