

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

6621081 (S/N 1269) 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 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA007044		
Sample Date		Client Info		29 Jan 2024		
Machine Age	hrs	Client Info		17948		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	10		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	100	2		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm	ASTM D5185m	0	0		
Sulfur	ppm	ASTM D5185m	23500	22530		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.010		
ppm Water	ppm	ASTM D6304	>500	102		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		8228		
Particles >6µm		ASTM D7647	>1300	<u> </u>		
Particles >14µm		ASTM D7647	>80	<mark>/</mark> 95		
Particles >21µm		ASTM D7647	>20	6		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	20/19/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.42		



OIL ANALYSIS REPORT

 10k τ	Particle Trend	VISUAL		method	limit/base	current	history1	history2
	4μm 6μm	White Metal	scalar	*Visual	NONE	NONE		
	αποποποιοποι 14μm	Yellow Metal	scalar	*Visual	NONE	NONE		
of particles (1 - 48		Precipitate	scalar	*Visual	NONE	NONE		
jo 4k		Silt	scalar	*Visual	NONE	NONE		
un 2k-		Debris	scalar	*Visual	NONE	NONE		
Ok		Sand/Dirt	scalar	*Visual	NONE	NONE		
	Jan 29/24 Jan 29/24	Appearance	scalar	*Visual	NORML	NORML		
	Jan.	Odor	scalar	*Visual	NORML	NORML		
· .	Water (KF)	Emulsified Water	scalar	*Visual	>0.05	NEG		
¹²⁰⁰⁰		Free Water	scalar	*Visual		NEG		
10000 -	Severe	FLUID PROPER	TIES	method	limit/base	current	history1	history2
4000 Mater (ppm)		Visc @ 40°C	cSt	ASTM D445	45	52.0		
[₩] 4000-		SAMPLE IMAGE	S	method	limit/base	current	history1	history2
2000-	Abnormal							
U-L	- 29/27/meL - 42/62/meL	Color					no image	no image
1.20 (B)0.96	Acid Number	Bottom					no image	no image
E 0.72-		GRAPHS						
naquinu p		Ferrous Alloys				Particle Count		
Pio 0.24		¹⁰			491,520	Ι		1 ²⁶
0.00 L		8 iron			122,880			-24
6	Jan 29/24 Ac. ac1	E 6			00.700			
		2			30,720	1		-22
	Water (KF)	0			7,680	 . 		-20
12000	Sauara	ian 29/24			Jan 29/24 : (per 1 ml) 076'1			18
10000-	Severe	Jan			Jan.	./ ,	N	-20 -18 -16 -14 +12
6000 -		Non-ferrous Meta	ls		pitted 480			-16
6000-		10 8 copper			Jan 29/24		\	-14
\$ 4000-		6 - 6 - Transmission lead						
2000-	Abnormal				30		$\langle \rangle$	-12
0	р Р Р	2				Bioresemal		-10
0	лаг 29/24 пер	0				1		
		Jan 29/24			Jan29/2			
60 .	Viscosity @ 40°C	,			- D	μ 6μ	14µ 21µ	38µ 71µ
	Severe	Viscosity @ 40°C			1.20	Acid Number		
55 -	dhaamal	55 - Severe			(⁰ Hoy 0.96	Basermal		
(j) 50 -		ି ₅₀ - <mark>Abnormal</mark>			<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>			
(J=0+) 153 45 -	Base	Co 50 - Base 8 45 - Abnormal						
40	Abnormal	40 + Severe			4 0.48 Many 0.24 Piper 0.00			
	Severe	35						4
35	- 9/24	Jan 29/24			Jan 29/24	Jan 29/24		Jan 29/24
-	an 29/2 ۸۰	ř			ξĻ	ŗ		- C
	Laboratory Sample No. Lab Number Unique Number Certificate L2367 To discuss this sample report	: 11023229 : IND 2 (Additional Te	Recei Teste Diagr sts: KF, P	ived : 13 ed : 14 nosed : 14 PrtCount)	3 May 2024 4 May 2024 May 2024 - Don	Baldridge	620 Conta	D PACKAGING D S 1325 W ST OREM, UT US 84058 act: J. FULLEF packaging.com
	* - Denotes test methods that Statements of conformity to s	are outside of the ISO	17025 scc	pe of accred	litation.	rule (JCGM 106		F: F:

Report Id: TRAORE [WUSCAR] 06177176 (Generated: 05/14/2024 19:53:23) Rev: 1

Contact/Location: J. FULLER - TRAORE