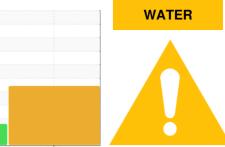


OIL ANALYSIS REPORT



Machine Id

5817183 (S/N 1025)

Component Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

A Recommendation

The filter change at the time of sampling has been noted. We were unable to perform a particle count due to a high concentration of particles present in this sample. We advise that you stop the unit and follow the water drain-off procedure for this component. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present.

Fluid Condition

The AN level is acceptable for this fluid.

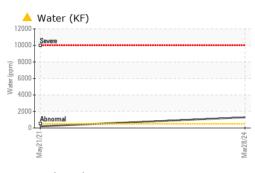
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA016335	KCP33486	
Sample Date		Client Info		28 Mar 2024	21 May 2021	
Machine Age	hrs	Client Info		36691	20726	
Oil Age	hrs	Client Info		0	10658	
Oil Changed		Client Info		Not Changd	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	<1	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	0	
Lead	ppm	ASTM D5185m	>10	0	<1	
Copper	ppm	ASTM D5185m	>50	8	6	
Tin	ppm	ASTM D5185m	>10	ء <1	0	
Antimony	ppm	ASTM D5185m	210		0	
Vanadium	ppm	ASTM D5185m		 <1	0	
Cadmium		ASTM D5185m		<1	0	
Gaumum	ppm	ASTIVI DOTODIII		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	<1	
Barium	ppm	ASTM D5185m	90	0	<1	
Molybdenum	ppm	ASTM D5185m	0	<1	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m	100	30	51	
Calcium	ppm	ASTM D5185m	0	4	0	
Phosphorus	ppm	ASTM D5185m	0	<1	0	
Zinc	ppm	ASTM D5185m	0	51	77	
Sulfur	ppm	ASTM D5185m	23500	20538	17104	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	0	
Sodium	ppm	ASTM D5185m		9	25	
Potassium	ppm	ASTM D5185m	>20	3	5	
Water	%	ASTM D6304	>0.05	A 0.129	0.020	
ppm Water	ppm	ASTM D6304	>500	1290	206.9	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			11135	
Particles >6µm		ASTM D7647	>1300		A 3697	
Particles >14µm		ASTM D7647	>80		4 72	
Particles >21µm		ASTM D7647	>20		1 49	
Particles >38µm		ASTM D7647	>4		 7	
Particles >71µm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		▲ 19/16	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN) :43:09) Rev: 1	mg KOH/g	ASTM D8045	1.0	0.497 Contact/Locatio	0.395	Y - PENALACA

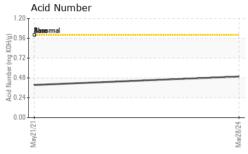
Report Id: PENALACA [WUSCAR] 06138061 (Generated: 04/05/2024 19:43:09) Rev: 1

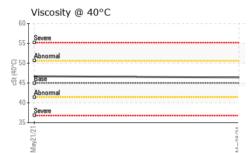
Contact/Location: GEORGE TAY - PENALACA Page 1 of 2



OIL ANALYSIS REPORT







Vhite Metal			limit/base	current	history1	history2
	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	A MODER	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	e HAZY	NORML	
Ddor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.05	A 0.2%	NEG	
Free Water	scalar	*Visual		<u> </u>	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
/isc @ 40°C	cSt	ASTM D445	45	46.4	46.7	
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color				·		no image
Bottom						no image
GRAPHS		-				
May21/21			Mar28/24			
Non-ferrous Metals	5					
Non-ferrous Metals	3		Ma28/24	Acid Number		
Non-ferrous Metals	5		428284 March 12			
Non-ferrous Metals	5		428284 March 12	Basermal		
Non-ferrous Metals	5		428284 March 12	0 6 2		
Non-ferrous Metals	5		428284 March 12	0 6 2 8		
Non-ferrous Metals	5		(0)H0 X00 Big WW 0.2 WarDow Wa	0 6 2 8 4		
Non-ferrous Metals	5		(b) Mar28024 War28024 War28024 War200 U U U U U U U	0 6 8 4		
Non-ferrous Metals	5		(0)H0 X00 Big WW 0.2 WarDow Wa	0 6 2 8 4		

To discuss this sample report, co * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Laboratory

Sample No.

Lab Number **Unique Number Test Package**

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

Certificate L2367

Contact/Location: GEORGE TAY - PENALACA

F: