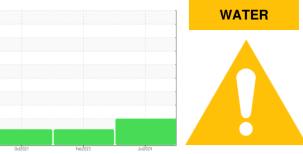


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

5977212 (S/N 1447)

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

DIAGNOSIS

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 moderate concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

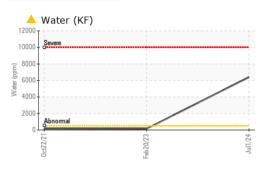
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KCPA014373	KCP54729	KCP11944	
Sample Date		Client Info		01 Jul 2024	20 Feb 2023	22 Oct 2021	
Machine Age	hrs	Client Info		7884	5248	2222	
Oil Age	hrs	Client Info		2636	3000	2222	
Oil Changed		Client Info		Not Changd	Changed	Changed	
Sample Status				ABNORMAL	ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	0	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m	>3	0	0	0	
Titanium	ppm	ASTM D5185m	>3	0	0	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>10	0	<1	0	
Lead	ppm	ASTM D5185m	>10	<1	<1	<1	
Copper	ppm	ASTM D5185m		4	4	3	
Tin	ppm	ASTM D5185m	>10	0	0	0	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES	lelerri	method	limit/base	current	history1	history2	
Boron	nnm	ASTM D5185m	0	0	0	<1	
Barium	ppm ppm	ASTM D5185m	90	0	<1	0	
Molybdenum		ASTM D5185m	0	0	0	0	
Manganese	ppm ppm	ASTM D5185m	0	0	0	<1	
Magnesium	ppm	ASTM D5185m	100	۰ <1	20	46	
Calcium		ASTM D5185m		0	0	0	
Phosphorus	ppm	ASTM D5185m	0	2	2	1	
Zinc	ppm	ASTM D5185m		6	2	0	
Sulfur	ppm			21303		17235	
	ppm	ASTM D5185m	23500		18429		
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<1	<1	0	
Sodium	ppm	ASTM D5185m		2	<1	3	
Potassium	ppm	ASTM D5185m	>20	0	<1	0	
Water	%	ASTM D6304		<u> </u>	0.014	0.016	
ppm Water	ppm	ASTM D6304	>500	6400	147.4	169.8	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647			5769	11377	
Particles >6µm		ASTM D7647			1158	4505	
Particles >14µm		ASTM D7647			0 100	3 71	
Particles >21µm		ASTM D7647	>20		<u> </u>	42	
Particles >38µm		ASTM D7647	>4		2	1	
Particles >71µm		ASTM D7647	>3		0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		20/17/14	▲ 19/16	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Acid Number (AN) :35:29) Rev: 1	mg KOH/g	ASTM D8045	1.0	0.35 0.34 Contact/Location: KIRK ? - MSOOL/			

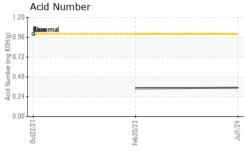
Report Id: MSOOLA [WUSCAR] 06234952 (Generated: 07/15/2024 21:35:29) Rev: 1

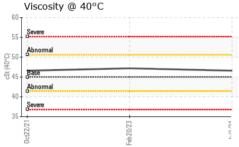
Contact/Location: KIRK ? - MSOOLA



OIL ANALYSIS REPORT

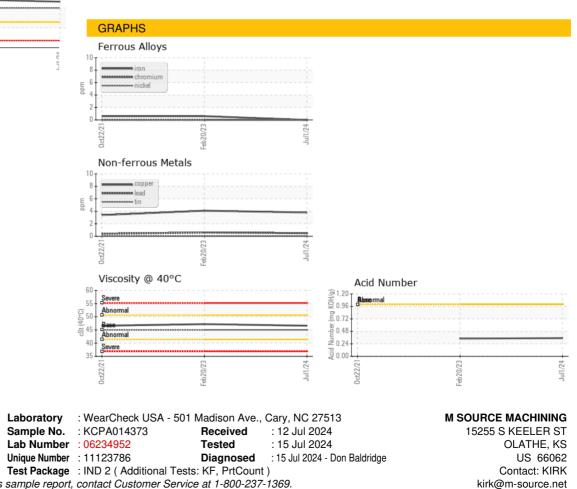






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE		NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<mark>人</mark> 0.2%	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	46.6	47.2	46.6
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
Dellara						

Bottom



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)

Report Id: MSOOLA [WUSCAR] 06234952 (Generated: 07/15/2024 21:35:29) Rev: 1

Certificate 12367

Contact/Location: KIRK ? - MSOOLA

T:

F: