

OIL ANALYSIS REPORT

Sample Rating Trend



4087271 (S/N 4365) Component

Compressor

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

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

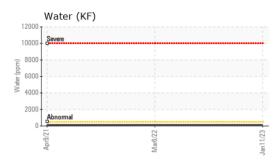
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

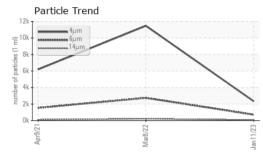
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		KCP46669D	KCP38392	KCP11092	
Sample Date		Client Info		11 Jan 2023	08 Mar 2022	09 Apr 2021	
Machine Age	hrs	Client Info		91636	84393	76785	
Oil Age	hrs	Client Info		4000	0	3000	
Oil Changed		Client Info		Changed	Changed	Changed	
Sample Status				NORMAL	ABNORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	0	<1	0	
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	0	0	0	
Copper	ppm	ASTM D5185m	>50	9	2	6	
Tin	ppm	ASTM D5185m	>10	0	<1	0	
Antimony	ppm	ASTM D5185m				0	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	0	<1	
Barium	ppm	ASTM D5185m	90	0	2	4	
Molybdenum	ppm	ASTM D5185m	0	0	0	0	
Manganese	ppm	ASTM D5185m		0	<1	0	
Magnesium	ppm	ASTM D5185m	100	0	32	17	
Calcium	ppm	ASTM D5185m	0	0	0	0	
Phosphorus	ppm	ASTM D5185m	0	4	2	11	
Zinc	ppm	ASTM D5185m	0	0	13	0	
Sulfur	ppm	ASTM D5185m	23500	19988	14578	14730	
CONTAMINANTS	6	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	1	3	2	
Sodium	ppm	ASTM D5185m		<1	4	3	
Potassium	ppm	ASTM D5185m	>20	0	3	<1	
Water	%	ASTM D6304	>0.05	0.009	0.008	0.013	
ppm Water	ppm	ASTM D6304	>500	91.6	88.2	130.5	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647		2340	11474	6191	
Particles >6µm		ASTM D7647	>1300	717	2 748	1 531	
Particles >14µm		ASTM D7647	>80	70	2 15	1 03	
Particles >21µm		ASTM D7647	>20	25	6 7	<u> </u>	
Particles >38µm		ASTM D7647	>4	1	5	1	
Particles >71µm		ASTM D7647	>3	0	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/17/13	1 9/15	1 8/14	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.42	0.42	0.413	
3:58:30) Rev: 1				Contact/Lo	cation: B. HAZL	E - WATSANCA	

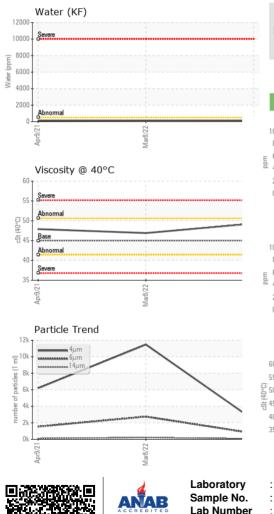
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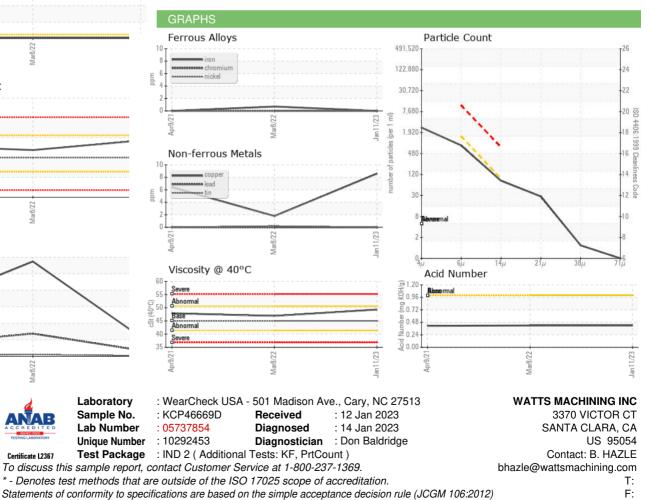
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	NEG	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	49.3	46.9	47.9
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				j		
Bottom						



Contact/Location: B. HAZLE - WATSANCA