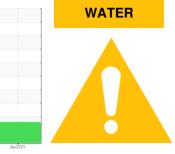


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

4392875 (S/N 1108)

Component Compressor Fluid KAESER SIGMA (OEM) S-460 (--- QTS)

DIAGNOSIS

Recommendation

The filter change at the time of sampling has been noted. There is too much water present in this sample to perform a particle count. 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

There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		KCPA015341	KCPA006255	KCP44357		
Sample Date		Client Info		15 Apr 2024	04 Oct 2023	13 Apr 2022		
Machine Age	hrs	Client Info		35983	33323	27650		
Oil Age	hrs	Client Info		2660	0	4577		
Oil Changed		Client Info		Not Changd	N/A	Changed		
Sample Status				ABNORMAL	ATTENTION	ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	0	<1	0		
Chromium	ppm	ASTM D5185m	>10	<1	0	0		
Nickel	ppm	ASTM D5185m	>3	<1	0	0		
Titanium	ppm	ASTM D5185m	>3	<1	0	0		
Silver	ppm	ASTM D5185m	>2	<1	0	0		
Aluminum	ppm	ASTM D5185m	>10	3	<1	<1		
Lead	ppm	ASTM D5185m	>10	<1	0	0		
Copper	ppm	ASTM D5185m	>50	9	9	8		
Tin	ppm	ASTM D5185m	>10	<1	0	0		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		<1	0	0		
Cadmium	ppm	ASTM D5185m		<1	0	0		
ADDITIVES	ppm	method	limit/base	current	history1	history2		
Boron	nnm	ASTM D5185m	IIIIII/Dase	0	0	<1		
	ppm		90	0	3	0		
Barium	ppm	ASTM D5185m	90	-				
Molybdenum	ppm	ASTM D5185m		<1	0	0		
Manganese	ppm	ASTM D5185m	00	<1 8				
Magnesium	ppm	ASTM D5185m	90	0	4	<1		
Calcium	ppm		2	-	11	0		
Phosphorus	ppm	ASTM D5185m		0	63	8		
Zinc	ppm	ASTM D5185m		37	153	59		
Sulfur	ppm	ASTM D5185m		19489	14948	14768		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1		
Sodium	ppm	ASTM D5185m		1	2	<1		
Potassium	ppm	ASTM D5185m	>20	2	2	0		
Water	%	ASTM D6304	>0.05	<u> </u>	0.005	0.007		
ppm Water	ppm	ASTM D6304	>500	A 1010	58.8	75.8		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647			1796	7398		
Particles >6µm		ASTM D7647			668	<u> </u>		
Particles >14µm		ASTM D7647	>80		81	1 84		
Particles >21µm		ASTM D7647	>20		<u> </u>	45		
Particles >38µm		ASTM D7647	>4		1	2		
Particles >71µm		ASTM D7647	>3		0	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13		18/17/14	1 8/15		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN) :48:38) Rev: 1	mg KOH/g	ASTM D8045	0.4	0.41 Contact/	0.41 0.36 0.40 Contact/Location: RAY ENNS - WILLYC			

Report Id: WILLYO [WUSCAR] 06156922 (Generated: 04/24/2024 18:48:38) Rev: 1

41 0.36 0.40 Contact/Location: RAY ENNS - WILLYO



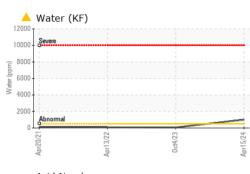
42 Abnorm

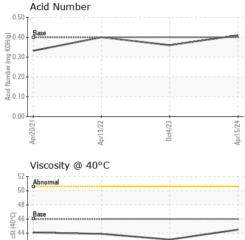
40

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Apr20/21

OIL ANALYSIS REPORT





Apr13/22

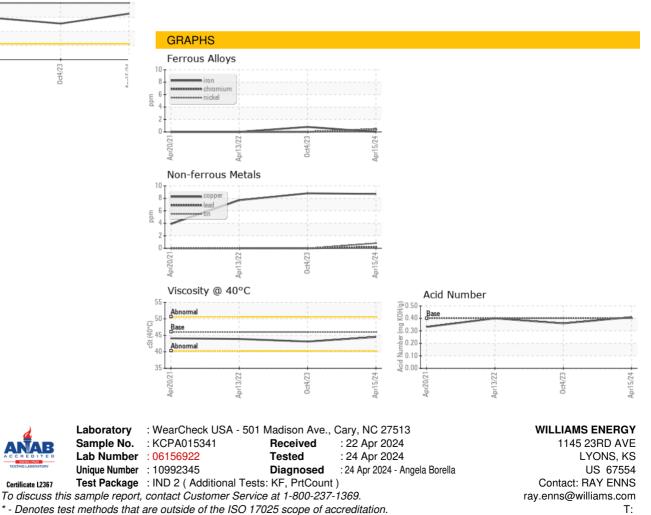
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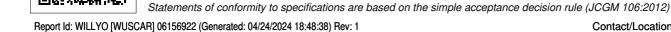
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	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	46	44.5	43.1	43.9
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom





Certificate 12367

Contact/Location: RAY ENNS - WILLYO

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