

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 7209927 (S/N 1244) Component

Compressor Fluid

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

DIAGNOSIS

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.

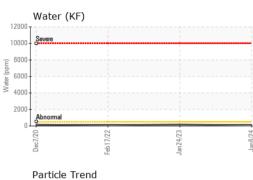
		Dec202	0 Feb2022	Jan2023 Ja	n2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011657	KCP55792	KCP41217
Sample Date		Client Info		08 Jan 2024	24 Jan 2023	17 Feb 2022
Machine Age	hrs	Client Info		9284	6212	4268
Oil Age	hrs	Client Info		0	1946	895
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	1	2
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		13	2	5
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	210			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm				-	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	<1
Barium	ppm	ASTM D5185m	90	0	30	18
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	100	38	72	51
Calcium	ppm	ASTM D5185m	0	0	2	2
Phosphorus	ppm	ASTM D5185m	0	31	30	5
Zinc	ppm	ASTM D5185m	0	0	9	6
Sulfur	ppm	ASTM D5185m	23500	18990	23259	16262
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	2	<1
Sodium	ppm	ASTM D5185m		0	22	14
Potassium	ppm	ASTM D5185m	>20	2	4	2
Water	%	ASTM D6304	>0.05	0.009	0.017	0.011
ppm Water	ppm	ASTM D6304	>500	95	178.8	110.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1214	691	3430
Particles >6µm		ASTM D7647	>1300	359	125	559
Particles >14µm		ASTM D7647	>80	17	17	15
Particles >21µm		ASTM D7647	>20	4	9	2
Particles >38µm		ASTM D7647	>4	0	4	0
Particles >71µm		ASTM D7647		0	3	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/16/11	17/14/11	16/11
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40	0.38	0.39
51.12) Rev: 1	ing non i/g	10 IN D0040	1.0	Contact/Locat		

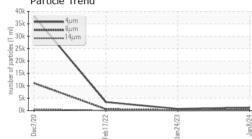
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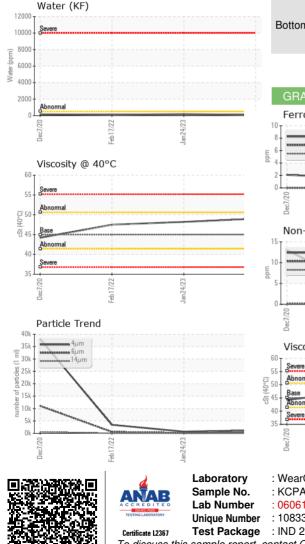
Contact/Location: Service Manager - SUPKIN



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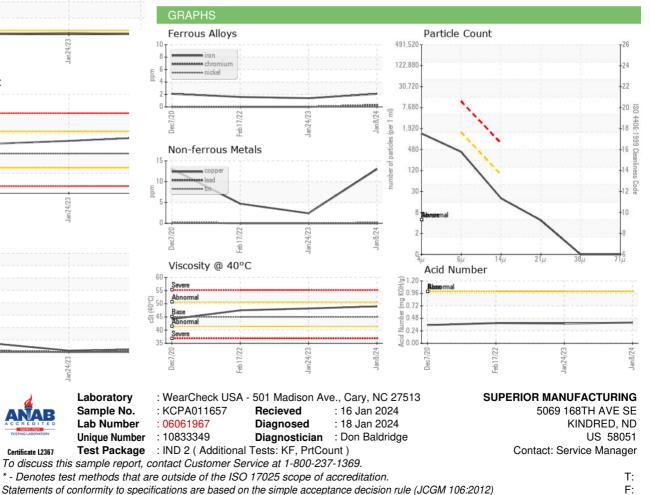






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	49.0	48.2	47.5
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						3
Dattern			1			

Bottom



Contact/Location: Service Manager - SUPKIN