

OIL ANALYSIS REPORT

Sample Rating Trend





Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

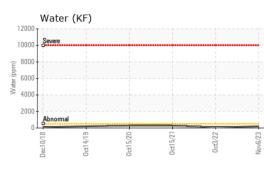
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

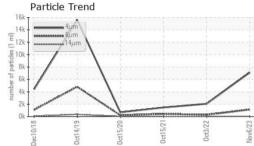
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA006974	KCP46019	KCP37811
Sample Date		Client Info		06 Nov 2023	03 Oct 2022	15 Oct 2021
Machine Age	hrs	Client Info		60177	51183	46422
Oil Age	hrs	Client Info		0	3957	2767
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	0
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m		1	1	2
Tin	ppm	ASTM D5185m	>10	0	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	0	34	64
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	100	0	84	84
Calcium	ppm	ASTM D5185m	0	0	0	2
Phosphorus	ppm	ASTM D5185m	0	0	15	1
Zinc	ppm	ASTM D5185m	0	0	0	2
Sulfur	ppm	ASTM D5185m	23500	18305	22985	16865
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	2	<1
Sodium	ppm	ASTM D5185m		39	42	40
Potassium	ppm	ASTM D5185m	>20	5	6	5
	ppiii			5	0	
	%	ASTM D6304	>0.05	0.020	0.008	0.028
Water			>0.05 >500			0.028 287.9
Water	% ppm	ASTM D6304		0.020	0.008	
Water ppm Water FLUID CLEANLIN	% ppm	ASTM D6304 ASTM D6304	>500	0.020 200.1	0.008 81.6	287.9
Water ppm Water FLUID CLEANLIN Particles >4µm	% ppm	ASTM D6304 ASTM D6304 method	>500 limit/base	0.020 200.1 current	0.008 81.6 history1	287.9 history2
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>500 limit/base	0.020 200.1 current 7114	0.008 81.6 history1 2061	287.9 history2 1469
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>500 limit/base >1300 >80	0.020 200.1 current 7114 1139	0.008 81.6 history1 2061 291	287.9 history2 1469 441
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >1300 >80 >20	0.020 200.1 current 7114 1139 47	0.008 81.6 history1 2061 291 17	287.9 history2 1469 441 25
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >1300 >80 >20 >4	0.020 200.1 <u>current</u> 7114 1139 47 11	0.008 81.6 2061 291 17 4	287.9 history2 1469 441 25 4
Water ppm Water FLUID CLEANLIN Particles >4μm Particles >6μm Particles >14μm Particles >21μm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >1300 >80 >20 >4	0.020 200.1 <u>current</u> 7114 1139 47 11 1	0.008 81.6 2061 291 17 4 0	287.9 history2 1469 441 25 4 0
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	% ppm NESS	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ISO 4406 (c)	>500 limit/base >1300 >80 >20 >4 >3 >/17/13	0.020 200.1 7114 1139 47 11 1 0 20/17/13	0.008 81.6 2061 291 17 4 0 0 0 18/15/11	287.9 history2 1469 441 25 4 0 0 0 16/12
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	% ppm NESS	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>500 limit/base >1300 >80 >20 >4 >3	0.020 200.1 current 7114 1139 47 11 1 0	0.008 81.6 2061 291 17 4 0 0	287.9 history2 1469 441 25 4 0 0 0

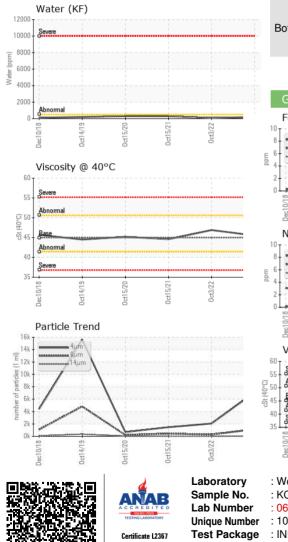
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	45.5	46.9	44.6
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		
				March 1		



