

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **4173852 (S/N 1011)** 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.

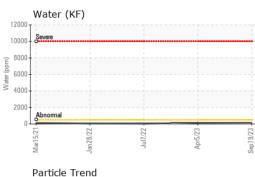
		Mar2021	Jan2022	Jul2022 Apr2023	Sep2023	
SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCP40023D	KCPA000464	KCP50743
Sample Date		Client Info		19 Sep 2023	05 Apr 2023	07 Jul 2022
Machine Age	hrs	Client Info		94803	90797	84486
Oil Age	hrs	Client Info		0	0	3000
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<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	<1
Aluminum	ppm	ASTM D5185m		<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper		ASTM D5185m		3	2	4
Tin	ppm		>10	ہ <1	0	0
	ppm		×10	<1		
Antimony	ppm	ASTM D5185m				
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	8
Barium	ppm	ASTM D5185m	90	1	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	100	42	26	12
Calcium	ppm	ASTM D5185m	0	<1	0	0
Phosphorus	ppm	ASTM D5185m	0	3	21	0
Zinc	ppm	ASTM D5185m	0	16	21	36
Sulfur	ppm	ASTM D5185m	23500	24334	21098	22394
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	11	4 1
Sodium	ppm	ASTM D5185m		13	5	3
Potassium	ppm	ASTM D5185m	>20	3	2	0
Water	%	ASTM D6304	>0.05	0.010	0.014	0.003
ppm Water	ppm	ASTM D6304	>500	104.7	141.5	38.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		489	347	5089
Particles >6µm		ASTM D7647	>1300	188	91	829
Particles >14µm		ASTM D7647	>80	28	9	77
Particles >21µm		ASTM D7647		11	5	17
Particles >38µm		ASTM D7647 ASTM D7647	>4	2	1	1
Particles >71µm		ASTM D7647 ASTM D7647		1	0	0
Oil Cleanliness		ISO 4406 (c)	>3		16/14/10	20/17/13
		()		16/15/12		
FLUID DEGRADA	TION	method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.38	0.41	0.39
(11:34) Rev: 1				Contact/Locati	on: Service Man	agor COVPE

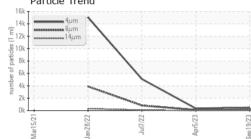
Report Id: GCXPET [WUSCAR] 05960692 (Generated: 09/26/2023 15:11:34) Rev: 1

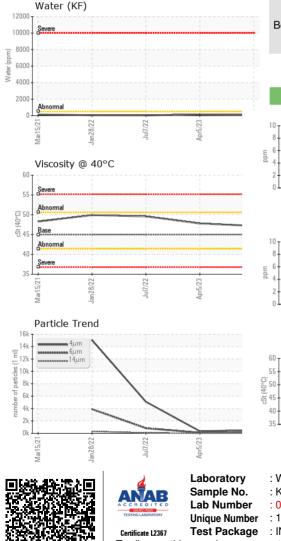
Contact/Location: Service Manager - GCXPET



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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				history2
FLUID PROPERT Visc @ 40°C	IES cSt	method ASTM D445	limit/base 45	current 47.2	history1 47.8	history2 49.59
	cSt					
Visc @ 40°C	cSt	ASTM D445	45	47.2	47.8	49.59

