

OIL ANALYSIS REPORT



Machine Id

5100306 (S/N 1068)

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

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.

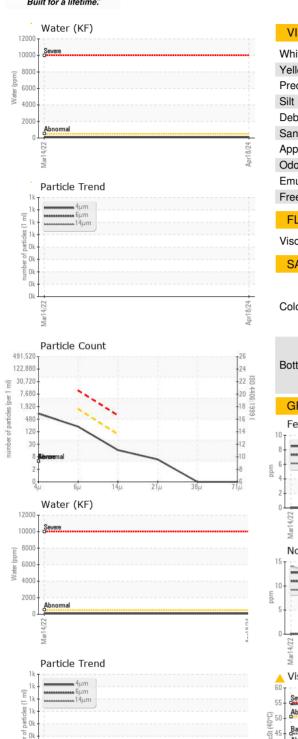
Fluid Condition

The oil viscosity is higher than normal. The AN level is at the top-end of the recommended limit.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA013702	KCP38108	
Sample Date		Client Info		18 Apr 2024	14 Mar 2022	
Machine Age	hrs	Client Info		39168	31000	
Oil Age	hrs	Client Info		0	10000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	0	
Chromium	ppm	ASTM D5185m	>10	<1	0	
Nickel	ppm	ASTM D5185m	>3	<1	0	
Titanium	ppm	ASTM D5185m	>3	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>10	2	<1	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>50	5	14	
Tin	ppm	ASTM D5185m	>10	<1	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	
Barium	ppm	ASTM D5185m	90	0	0	
Molybdenum	ppm	ASTM D5185m	0	<1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m	100	<1	0	
Calcium	ppm	ASTM D5185m	0	2	0	
Phosphorus	ppm	ASTM D5185m	0	2	2	
Zinc	ppm	ASTM D5185m	0	0	0	
Sulfur	ppm	ASTM D5185m	23500	13995	15383	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	<1	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	<1	0	
Water	%	ASTM D6304	>0.05	0.008	0.008	
ppm Water	ppm	ASTM D6304	>500	83	84.9	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		779		
Particles >6µm		ASTM D7647	>1300	187		
Particles >14µm		ASTM D7647	>80	14		
Particles >21µm		ASTM D7647	>20	5		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	17/15/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.67	0.57	



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VISUAL		method	limit/base	current	history1	history2
hite Metal	scalar	*Visual	NONE	NONE	NONE	
ellow Metal	scalar	*Visual	NONE	NONE	NONE	
recipitate	scalar	*Visual	NONE	NONE	NONE	
ilt	scalar	*Visual	NONE	NONE	NONE	
ebris	scalar	*Visual	NONE	NONE	A MODER	
and/Dirt	scalar	*Visual	NONE	NONE	NONE	
ppearance	scalar	*Visual	NORML	NORML	NORML	
)dor	scalar	*Visual	NORML	NORML	NORML	
mulsified Water	scalar	*Visual	>0.05	NEG	NEG	
ree Water	scalar	*Visual	>0.05	NEG	NEG	
				NEG		
FLUID PROPERT	IES	method	limit/base	current	history1	history2
isc @ 40°C	cSt	ASTM D445	45	6 58.52	▲ 54.6	
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
olor						no imore
Color						no image
ottom						no image
				10003		no inage
GRAPHS						
Ferrous Alloys			101 50	Particle Cou	unt	
iron			491,52	T		T ²
nickel			122,88	0-		-2
			20.72	0		
			30,72	1		-2
			7,68	0-		-2
Mar1 4/22			Apr18/24 (per 1 ml)			
Marl			Apr18/24 168 (per 1 ml)		N	-1
Non-ferrous Metal	s		apite 48	0		
			rofp		N. C. C.	
copper lead			12 nag		N	1
tin			- 3	0-		-1
				⁸ Berevenal		+1
122			/24	2-	\backslash	-8
4			Apr18/24			
arl				0. 4µ 6µ	14µ 21µ	38µ 71µ
Viscosity @ 40°C					ar	
Viscosity @ 40°C				Acid Numbe	- 1	
				0		
Viscosity @ 40°C				0	51	
Viscosity @ 40°C Severe Abnormal Base				0		
Viscosity @ 40°C Severe Abnomal Base Abnomal				0		
Viscosity @ 40°C			(D) HO () (D) (D) (D) (D) (D) (D) (D) (D) (D)	0 6 2 8 4		
Viscosity @ 40°C			(B)HOX B (B)HOX B (B)HOX B (B) HOX B (B)	Basermal		
Viscosity @ 40°C Severe Abnormal Base Abnormal Severe			(D) HO () (D) (D) (D) (D) (D) (D) (D) (D) (D)	Basermal		
Viscosity @ 40°C Severe Abnormal Base Abnormal			(B)HOX B (B)HOX B (B)HOX B (B) HOX B (B)	0 6 2 8 4		
Viscosity @ 40°C	1 Madica	n Avo. Com	40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,874 40,1,974 40,	Basermal		
Viscosity @ 40°C			(0)(HOX 00.9 1.2 (0)(HOX 00.9 0.0 1.2 0.0 0.7 1.2 0.0 0.7 1.2 0.0 0.7 1.2 0.0 0.7 0.9 0.9 0.0 0.7 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Basermal	KNT MAN	
Viscosity @ 40°C	Recei	ived : 23	()HOY DO 10 ()HOY DO 20 ()HOY DO 20 ()HOY DO 20 () ()HOY DO 20 () () () () () () () () () () () () ()	Basermal	KNT MAN	UFACTURIN 0 EUREKA I NEWARK. (
Viscosity @ 40°C		ived : 23 d : 26	(0)(HOX 00.9 1.2 (0)(HOX 00.9 0.0 1.2 0.0 0.7 1.2 0.0 0.7 1.2 0.0 0.7 1.2 0.0 0.7 0.9 0.9 0.0 0.7 0.9 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0 6 Beenmal	KNT MAN	

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: KNTNEW [WUSCAR] 06158474 (Generated: 04/29/2024 12:35:47) Rev: 1

Certificate L2367

Laboratory Sample No. Lab Number Unique Number Test Package

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Contact/Location: Service Manager - KNTNEW

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