

OIL ANALYSIS REPORT

Sample Rating Trend





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

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.

				Feb2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011612		
Sample Date		Client Info		18 Feb 2024		
Machine Age	hrs	Client Info		7986		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm		>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm		>50	5		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES	le le tra	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	<1		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m	U	<1		
Magnesium	ppm	ASTM D5185m	100	31		
Calcium	ppm	ASTM D5185m	0	2		
Phosphorus	ppm	ASTM D5185m	0	3		
Zinc		ASTM D5185m	0	3		
Sulfur	ppm	ASTM D5185m	23500	-		
	ppm			17290		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0		
Sodium	ppm	ASTM D5185m		4		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.05	0.015		
ppm Water	ppm	ASTM D6304	>500	158		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1413		
Particles >6µm		ASTM D7647	>1300	352		
Particles >14µm		ASTM D7647	>80	25		
Particles >21µm		ASTM D7647	>20	6		
Particles >38µm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/12		
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.37		
. ,	- 0					



OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

scalar

*Visual

*Visual

*Visual

*Visual

*Visual

scalar *Visual

scalar *Visual

scalar *Visual

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

VISUAL

White Metal

Yellow Metal

Precipitate

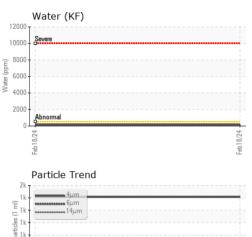
Silt

Debris

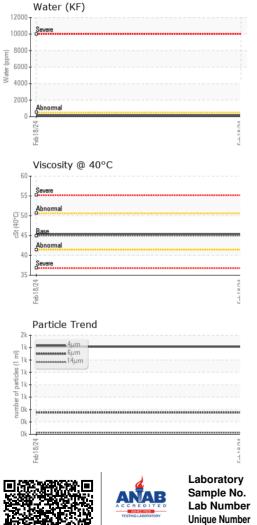
Odor

Sand/Dirt

Appearance







	FLUID PROPER isc @ 40°C SAMPLE IMAGE olor ottom GRAPHS Ferrous Alloys Ferrous Alloys Non-ferrous Meta	cSt S	method ASTM D445 method	limit/l 45 limit/l Value of particles (Jack Jack Jack Jack Jack Jack Jack Jack	2 base 2 2 2 2 2 2 2 2 8 0 7 2 2 8 0 7 2 6 0 7 6 8 0 7 2 0 7 6 8 0 7 2 1 2 7 6 1 7 7 8 1 7 7 7 8 7 7 7 7 7 7 8 7 7 7 7	current 45.4 current	history1 history1 no image no image	history2 history2 no image no image -24 -22 -20 -18 -16 -14
	SAMPLE IMAGE	S		limit/i	base	current	no image no image	no image no image
	olor ottom GRAPHS Ferrous Alloys fron chromium nickel Non-ferrous Meta			Feb18/24 er of cardicles fore: 1 mil	491,520 122,880 30,720 7,680	article Count	no image	no image
	GRAPHS Ferrous Alloys	IIS		Feb18/24 Feb	491,520 122,880 30,720 7,680	article Count	-	-24 -22
	Ferrous Alloys	lls		Feb18/24 Feb	491,520 122,880 30,720 7,680	article Count		-24 -22
	hron chromium nickel Non-ferrous Meta	lls		Feb18/24 er of particles (per 1 ml)	491,520 122,880 30,720 7,680	article Count		-24 -22
	Non-ferrous Meta	IIs		Feb18/24 Feb	30,720 - 7,680 -	•••		-22
	Non-ferrous Meta	ıls		Feb18/24 er of barticles loer 1 ml	7,680 -	· · · · · · · · · · · · · · · · · · ·		
	Non-ferrous Meta	ıls		Feb 18/24		11	X	-20 -18 -16
	Non-ferrous Meta	ıls		Feb 18/24 er of particles foer 1 m	480		x	-18 -16
	Non-ferrous Meta	ıls		er of particles	480	1.	`	-16
	aaaaaaaaaaa lead			er of o	2			
	tin				120-	/		-14
					30-		$\langle \rangle$	-12
60 55 \$2 \$0 \$2 \$0 \$4 \$4					8 Sibre	øemal		-10
60 55 \$2 \$0 \$2 \$0 \$4 \$4	/24			/24	2			-8
60 - 55 - 0 2 50 - 0 2 45 - 0 3 45 - 0	Feb 13			Feb18/24	0,			
0-50-5 	Viscosity @ 40°C					^{6µ} cid Number	14μ 21μ	38µ 71µ
0,0+) 50 − 50 −	Severe Abnormal				(B)HO3 (B	asermal		
S 13	Abnormal Base				E 0.72			
404	Abnormal				B 0.24			
35	Ŧ			/24	0.00			
С.4-1 2.0.4 С.4-1 2.0.4 С.4-1 3	Feb 18/24			Feb18/24	Feb18/24			
Laboratory : Wea Sample No. : KCF Lab Number : 061 Unique Number : 108 tificate 12367 Test Package : IND discuss this sample report, conta Denotes test methods that are out	399842 2 (Additional Tes act Customer Serv	Recei Teste Diagn sts: KF, P vice at 1-8 17025 sco	ived : 27 id : 28 nosed : 29 rtCount) 800-237-136	7 Feb 20 8 Feb 20 9 Feb 2024 9. 9. ditation.	024	dridge	156 Contact: S	A SUPPLY IN 64 W 134TH S GARDENA, C US 9024 ervice Manage T
atements of conformity to specific			,					F