

OIL ANALYSIS REPORT

Sample Rating Trend

ISO



[12630] KAESER 6692546 (S/N 1246)

Compressor

Fluid KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil.

Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KC122325	KC88240	KC67704
Sample Date		Client Info		01 Jul 2024	11 Feb 2022	22 Jan 2020
Machine Age	hrs	Client Info		14937	8548	3066
Oil Age	hrs	Client Info		0	3542	3066
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ATTENTION	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	<1	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>50	16	6	4
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m			0	0
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	1	0
Barium	ppm	ASTM D5185m	90	0	0	10
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	90	19	97	63
Calcium	ppm	ASTM D5185m	2	0	0	2
Phosphorus	ppm	ASTM D5185m		0	8	<1
Zinc	ppm	ASTM D5185m		0	0	13
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1	<1	<1
Sodium	ppm	ASTM D5185m		17	28	19
Potassium	ppm	ASTM D5185m	>20	3	0	0
Water	%	ASTM D6304	>0.05	0.021	0.028	0.013
ppm Water	ppm	ASTM D6304	>500	216	281.2	136.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		7262	7357	2250
Particles >6µm		ASTM D7647	>1300	<mark> </mark> 1632	A 3040	745
Particles >14µm		ASTM D7647	>80	<mark> </mark> 81	A 327	50
Particles >21µm		ASTM D7647	>20	<mark> </mark> 24	4 0	16
Particles >38µm		ASTM D7647	>4	1	3	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	0/18/14	▲ 19/16	17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.31	0.37	0.348

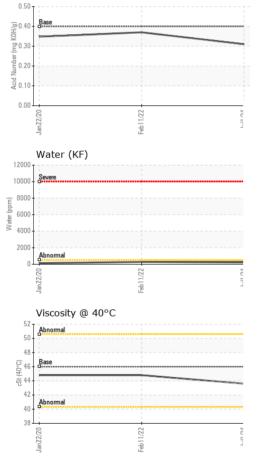
Contact/Location: Service Manager - LASNEW Page 1 of 2



Built for a lifetime.

OIL ANALYSIS REPORT

	_			
	8k -	Particle Trend		VISUAL
	≘ ^{7k} ·	4μm 		White Metal
	6k •	14μm		Yellow Metal
	number of particles (1 ml) 37 % 38 % 38 % 38 % 38 % 38 % 38 % 38 %			Precipitate
	jo 3k ·		AN OW DESCRIPTION OF THE REAL PROPERTY OF THE PROPERTY OF THE REAL PROPE	Silt
			A STATE OF THE OWNER	Debris
	1k - 0k -			Sand/Dirt
		Jan 22/20	-eb11/22 Jul1/24	Appearance
		Jan	- Ju	Odor
	-	Water (KF)		Emulsified Water
	12000-			Free Water
	10000.	Severe		FLUID PROPERT
(mdd)	8000.			Visc @ 40°C
Water (ppm)	6000 ·			SAMPLE IMAGES
	2000-			
	0.	Abnormal		
		Jan 22/20	Feb 11/22 Jul1/24	Color
		Jan 2	Leb 1	
		Acid Number		
	0.50-			Bottom
13	0.40-	Base		



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	LIGHT	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	46	43.6	44.8	44.8
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

GRAPHS Ferrous Alloys Particle Count 491.52 10 122,880 nicke 30,720 7,680 20 2 Jul1/24 4406 200 mm per 1,920 eb1 19999 C G Non-ferrous Metals 480 20 120 15 ۲u 30 0 Feb11/22 10/10/me Viscosity @ 40°C Acid Number 55 (B) 0.50 HOX 0.40 Base 50 Ē 0.30 40°(45 ළි 0.20 ŝ Abnorma 40 2 0.10 0.00 PC 35 1/22 Jul1/24 Jan22/20 lul1/24 n////ne Feb 11 Feb 1 LASER FRAME & BODY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : KC122325 Received : 15 Jul 2024 74 POTTER AVE Lab Number : 06235957 Tested : 16 Jul 2024 NEW ROCHELLE, NY Unique Number : 11124791 Diagnosed : 17 Jul 2024 - Don Baldridge US 10801 Test Package : IND 2 Contact: Service Manager 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. T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate 12367

Contact/Location: Service Manager - LASNEW Page 2 of 2

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