

OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
8455921 (S/N 1257)

Component
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 high 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	KCPA010289	---	---
Sample Date	Client Info	04 Jan 2024	---	---
Machine Age	hrs	Client Info	1501	---
Oil Age	hrs	Client Info	0	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>50	<1	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>3	0	---	---
Titanium	ppm	ASTM D5185m	>3	0	---	---
Silver	ppm	ASTM D5185m	>2	0	---	---
Aluminum	ppm	ASTM D5185m	>10	2	---	---
Lead	ppm	ASTM D5185m	>10	0	---	---
Copper	ppm	ASTM D5185m	>50	<1	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m	90	61	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m	90	87	---	---
Calcium	ppm	ASTM D5185m	2	4	---	---
Phosphorus	ppm	ASTM D5185m		30	---	---
Zinc	ppm	ASTM D5185m		0	---	---
Sulfur	ppm	ASTM D5185m		20636	---	---

CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	<1	---	---
Sodium	ppm	ASTM D5185m		13	---	---
Potassium	ppm	ASTM D5185m	>20	9	---	---
Water	%	ASTM D6304	>0.05	0.024	---	---
ppm Water	ppm	ASTM D6304	>500	249	---	---

FLUID CLEANLINESS

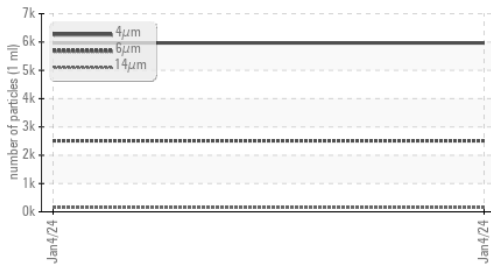
method	limit/base	current	history1	history2		
Particles >4µm	ASTM D7647			5967	---	---
Particles >6µm	ASTM D7647	>1300		▲ 2510	---	---
Particles >14µm	ASTM D7647	>80		▲ 149	---	---
Particles >21µm	ASTM D7647	>20		16	---	---
Particles >38µm	ASTM D7647	>4		1	---	---
Particles >71µm	ASTM D7647	>3		0	---	---
Oil Cleanliness	ISO 4406 (c)	>--/17/13		▲ 20/19/14	---	---

FLUID DEGRADATION

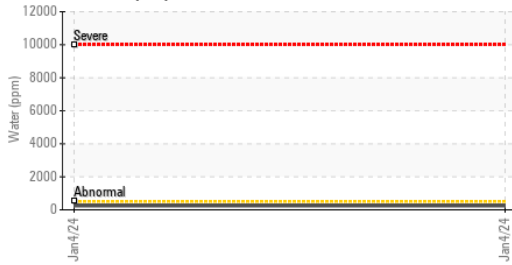
method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.32	---	---

OIL ANALYSIS REPORT

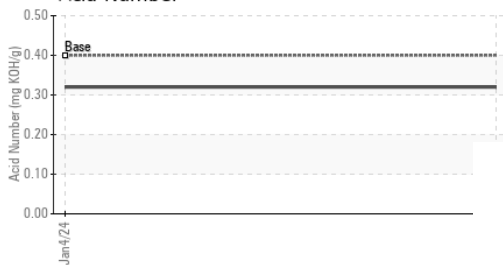
▲ Particle Trend



Water (KF)



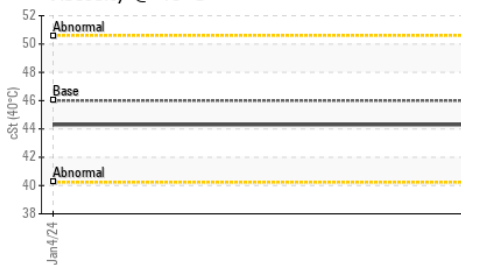
Acid Number



Water (KF)



Viscosity @ 40°C



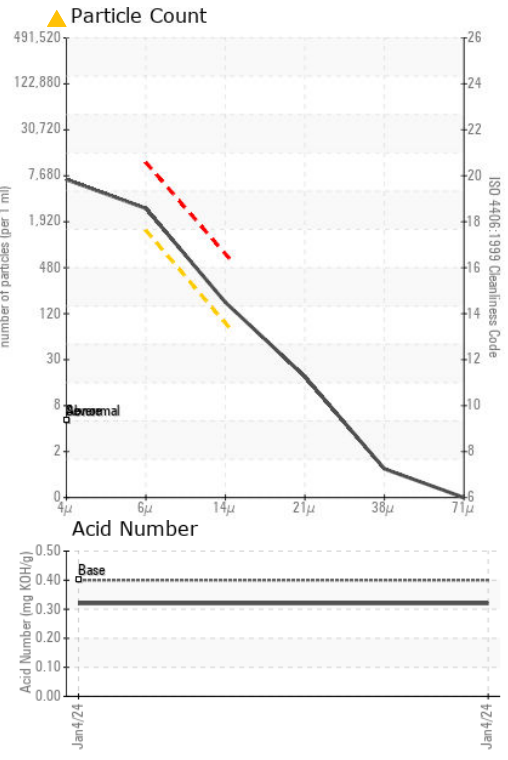
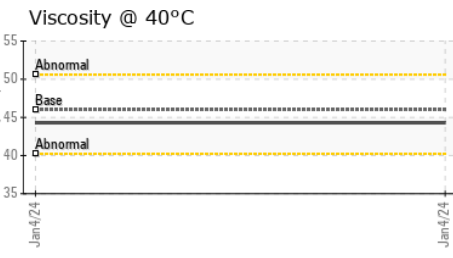
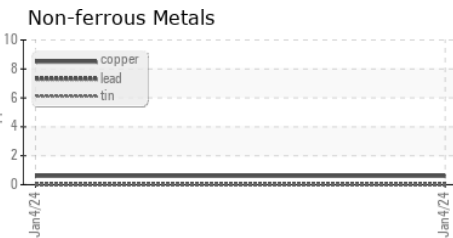
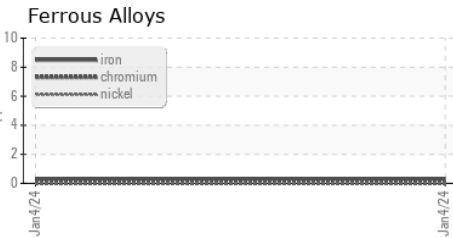
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	---	---
Yellow Metal	scalar	*Visual NONE	NONE	---	---
Precipitate	scalar	*Visual NONE	NONE	---	---
Silt	scalar	*Visual NONE	NONE	---	---
Debris	scalar	*Visual NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual NONE	NONE	---	---
Appearance	scalar	*Visual NORML	NORML	---	---
Odor	scalar	*Visual NORML	NORML	---	---
Emulsified Water	scalar	*Visual >0.05	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	44.3	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KCPA010289 **Received** : 10 Jan 2024
Lab Number : 06057368 **Diagnosed** : 12 Jan 2024
Unique Number : 10823317 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PrtCount)

AMAZON
 8000 TUCKASEEGEE RD
 CHARLOTTE, NC
 US 28214
 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.

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

T:
F: