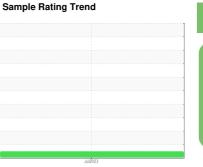


OIL ANALYSIS REPORT



NORMAL



KAESER 7475339

Component

Compressor

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

Recommendation

Resample at the next service interval to monitor.

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.

				Jul2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA002135		
Sample Date		Client Info		17 Jul 2023		
Machine Age	hrs	Client Info		19003		
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	0		
Nickel	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>3	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	0		
Lead	ppm	ASTM D5185m	>10	0		
Copper	ppm	ASTM D5185m	>50	<1		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	6		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	100	77		
Calcium	ppm	ASTM D5185m	0	1		
Phosphorus	ppm	ASTM D5185m	0	<1		
Zinc	ppm	ASTM D5185m	0	6		
Sulfur	ppm	ASTM D5185m	23500	20797		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<1		
Sodium	ppm	ASTM D5185m		22		
Potassium	ppm	ASTM D5185m	>20	4		
Water	%	ASTM D6304	>0.05	0.023		
ppm Water	ppm	ASTM D6304	>500	236.3		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1760		
Particles >6µm		ASTM D7647	>1300	465		
Particles >14μm		ASTM D7647	>80	41		
Particles >21µm		ASTM D7647	>20	12		
Particles >38μm		ASTM D7647	>4	1		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	18/16/13		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A sist Nt. mala au (ANI)	I/OLI/-	ACTM DODAE	1.0	0.40		

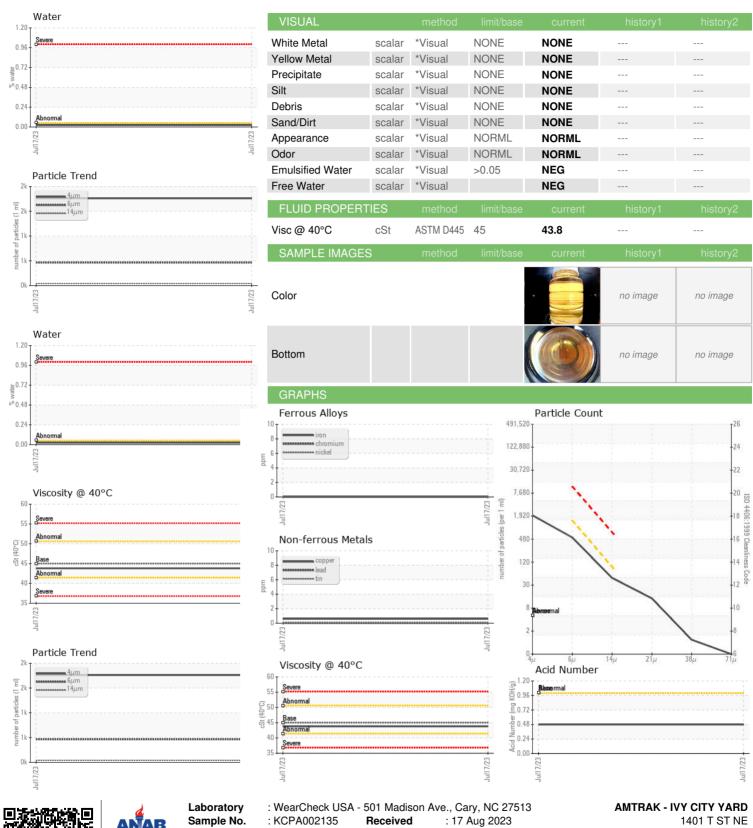
Acid Number (AN)

mg KOH/g ASTM D8045 1.0

0.48



OIL ANALYSIS REPORT





Lab Number **Unique Number**

: 05927873

: 10607820

Diagnosed

: 21 Aug 2023

Diagnostician : Don Baldridge

Test Package : IND 2 (Additional Tests: KF, PrtCount) Certificate L2367 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) WASHINGTON, DC US 20018

Contact: Service Manager WOODNAP@AMTRAK.COM

T:

F: