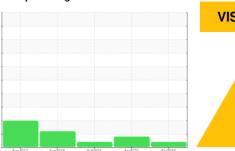


OIL ANALYSIS REPORT

Sample Rating Trend



VIS DEBRIS

Machine Id

KAESER SM 11 2629843 (S/N 1229)

Compressor

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. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

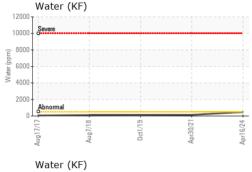
Fluid Condition

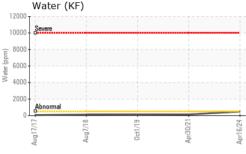
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

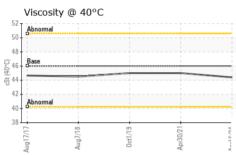
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012686	KCP33099	KCP22545
Sample Date		Client Info		16 Apr 2024	30 Apr 2021	01 Oct 2019
Machine Age	hrs	Client Info		34225	28731	25702
Oil Age	hrs	Client Info		2309	0	2150
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	6	5	2
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	0	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>50	4	10	12
Tin	ppm	ASTM D5185m	>10	0	<1	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	11	2
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	8	10	8
Calcium	ppm	ASTM D5185m	2	2	0	<1
Phosphorus	ppm	ASTM D5185m		0	8	2
Zinc	ppm	ASTM D5185m		1	0	0
Sulfur	ppm	ASTM D5185m		21816	14945	14262
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	0	<1
Sodium	ppm	ASTM D5185m		3	5	5
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.05	0.047	0.014	0.008
ppm Water	ppm	ASTM D6304	>500	471	140.6	87.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647			4440	
Particles >6µm		ASTM D7647	>1300		1038	
Particles >14μm		ASTM D7647	>80		<u> </u>	
Particles >21μm		ASTM D7647	>20		42	
Particles >38μm		ASTM D7647	>4		3	
Particles >71μm		ASTM D7647	>3		0	
Oil Cleanliness		ISO 4406 (c)	>/17/13		17/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

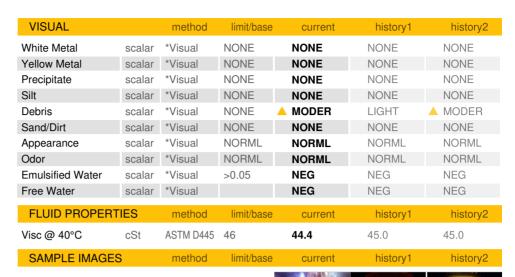


OIL ANALYSIS REPORT







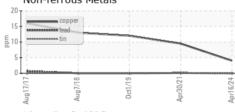


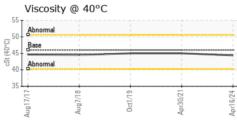
GRAPHS

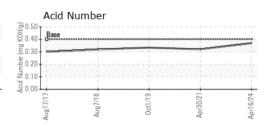
Color

Bottom

Ferrous Alloys Non-ferrous Metals











Certificate 12367

Laboratory

Sample No. Lab Number : 06160957 Unique Number : 10996380

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCPA012686 Received

: 25 Apr 2024 Tested

: 29 Apr 2024 : 29 Apr 2024 - Don Baldridge

Diagnosed Test Package : IND 2 (Additional Tests: KF, PrtCount)

Contact: AARON KRUSE aaron.kruse@shawnee-steel.com

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

SHAWNEE STEEL

6124 MERRIAM DR

MERRIAM, KS

US 66203

T:

F: