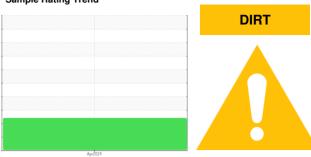


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

KAESER 3256920

Component Compressor

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

				Apr2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA012772		
Sample Date		Client Info		16 Apr 2024		
Machine Age	hrs	Client Info		11630		
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	0		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>3	<1		
Titanium	ppm	ASTM D5185m	>3	<1		
Silver	ppm	ASTM D5185m	>2	<1		
Aluminum	ppm	ASTM D5185m	>10	3		
Lead	ppm	ASTM D5185m	>10	1		
		ASTM D5185m	>50	4		
Copper Tin	ppm	ASTM D5185m	>10	-		
Vanadium	ppm		>10	<1		
	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m	90	20		
Molybdenum	ppm	ASTM D5185m	0	<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	100	53		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	0	0		
Zinc	ppm	ASTM D5185m	0	13		
Sulfur	ppm	ASTM D5185m	23500	21688		
CONTAMINANTS)	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	28		
Sodium	ppm	ASTM D5185m		10		
Potassium	ppm	ASTM D5185m	>20	3		
Water	%	ASTM D6304	>0.05	0.014		
ppm Water	ppm	ASTM D6304	>500	150		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		23164		
Particles >6µm		ASTM D7647	>1300	4 3485		
Particles >14µm		ASTM D7647	>80	79		
Particles >21µm		ASTM D7647	>20	21		
Particles >38µm		ASTM D7647	>4	1		
Particles >71μm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>22/19/13</u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.40		



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: KCPA012772 Lab Number : 06156953

Unique Number : 10992376

Received : 22 Apr 2024 **Tested** Diagnosed

: 23 Apr 2024 : 24 Apr 2024 - Angela Borella

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

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)

8300 PARDEE LN OAKLAND, CA US 94621

Contact: SFC MGMT SFCMANAGEMENT@ODFL.COM

T:

Report Id: OLDOAK [WUSCAR] 06156953 (Generated: 04/24/2024 18:02:20) Rev: 1

Contact/Location: SFC MGMT ? - OLDOAK

F: