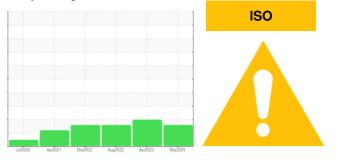


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id 6320074 (S/N 1017)

Component Compressor Fluid KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

A Recommendation

Oil and 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

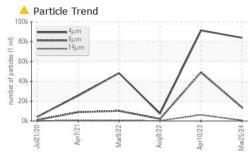
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

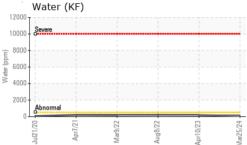
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA015978	KCPA001280	KCP44035
Sample Date		Client Info		25 Mar 2024	10 Apr 2023	08 Aug 2022
Machine Age	hrs	Client Info		13649	11156	9778
Oil Age	hrs	Client Info		1588	0	1217
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	<1	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m		5	3	3
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m	210	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	90	39	56	54
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	100	47	88	52
Calcium	ppm	ASTM D5185m		2	1	2
Phosphorus	ppm	ASTM D5185m	0	- <1	0	2
Zinc	ppm	ASTM D5185m		0	3	5
Sulfur	ppm	ASTM D5185m		23160	20232	19095
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	<1	<1
Sodium	ppm	ASTM D5185m		16	14	16
Potassium	ppm	ASTM D5185m	>20	4	6	<1
Water	%	ASTM D6304	>0.05	0.007	0.018	0.021
ppm Water	ppm	ASTM D6304	>500	79	183.9	213.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		83967	91323	7392
Particles >6µm		ASTM D7647	>1300	<u> </u>	4 9116	2074
Particles >14µm		ASTM D7647	>80	6 529	6 176	1 50
Particles >21µm		ASTM D7647	>20	<u> </u>	<u> </u>	939
Partialas 20.		ASTM D7647	>4	1	4 0	1
rancies >38μm		ASTM D7647	>3	0	1	0
Particles >38µm Particles >71µm Oil Cleanliness		ISO 4406 (c)	>/17/13	4/21/16	4 /23/20	0/18/14
Particles >71µm	TION		>/17/13 limit/base	24/21/16 current	24/23/20 history1	20/18/14 history2

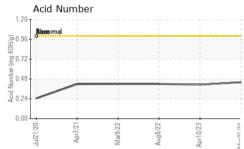
Contact/Location: Service Manager - PERARV Page 1 of 2

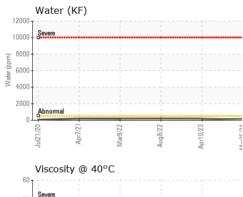


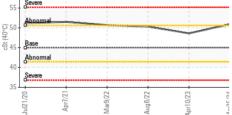
OIL ANALYSIS REPORT





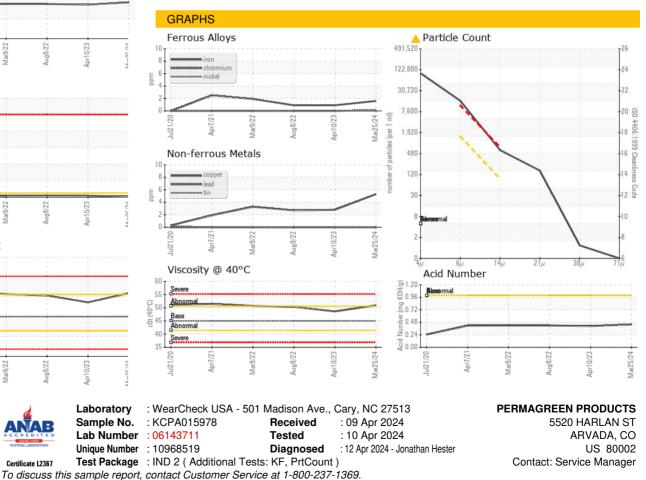






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	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	45	50.9	48.6	50.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom



* - 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)

Report Id: PERARV [WUSCAR] 06143711 (Generated: 04/12/2024 11:17:25) Rev: 1

Certificate 12367

Contact/Location: Service Manager - PERARV

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