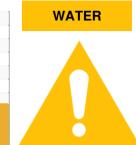


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

7190093 (S/N 1267)

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

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates present in the oil. There is a moderate concentration of water present in the oil.

Fluid Condition

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

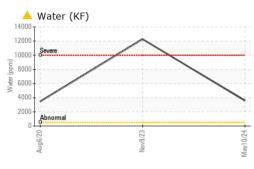
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA017655	KCPA009002	KCP24922
Sample Date		Client Info		10 May 2024	09 Nov 2023	06 Aug 2020
Machine Age	hrs	Client Info		2745	2444	359
Oil Age	hrs	Client Info		302	0	359
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	0	<1
Chromium	ppm	ASTM D5185m	>10	<1	0	0
Nickel	ppm	ASTM D5185m	>3	0	<1	0
Titanium	ppm	ASTM D5185m	>3	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	<1	0
Lead	ppm	ASTM D5185m	>10	<1	0	<1
Copper	ppm	ASTM D5185m	>50	1	0	1
Tin	ppm	ASTM D5185m	>10	<1	2	0
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	7	16
Barium	ppm	ASTM D5185m	90	65	114	7
Molybdenum	ppm	ASTM D5185m	0	<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	1
Magnesium	ppm	ASTM D5185m	100	18	6	6
Calcium	ppm	ASTM D5185m	0	6	8	1
Phosphorus	ppm	ASTM D5185m	0	17	3	7
Zinc	ppm	ASTM D5185m	0	26	4	45
Sulfur	ppm	ASTM D5185m	23500	22038	3100	15808
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	1	2	2
Sodium	ppm	ASTM D5185m		3	77	0
Potassium	ppm	ASTM D5185m	>20	3	19	0
Water	%	ASTM D6304		▲ 0.358	▲ 1.226	▲ 0.346
ppm Water	ppm	ASTM D6304		▲ 3580	▲ 12269.4	▲ 3460
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		940	85261	231
Particles >6µm		ASTM D7647	>1300	512	A 30141	126
Particles >14µm		ASTM D7647	>80	87	4 61	21
Particles >21µm		ASTM D7647	>20	29	4 5	7
Particles >38µm		ASTM D7647	>4	5	3	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/17/13	— 17/16/14	▲ 24/22/16	14/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) :37:12) Rev: 1	mg KOH/g	ASTM D8045	1.0	0.22	0.27 TOM MCGLASS	0.170

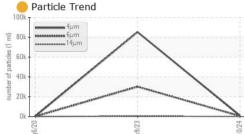
Report Id: AMASHE [WUSCAR] 06177706 (Generated: 05/22/2024 08:37:12) Rev: 1

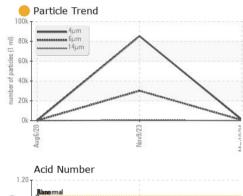
Contact/Location: TOM MCGLASSON - AMASHE

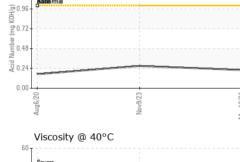


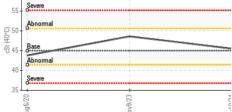
OIL ANALYSIS REPORT





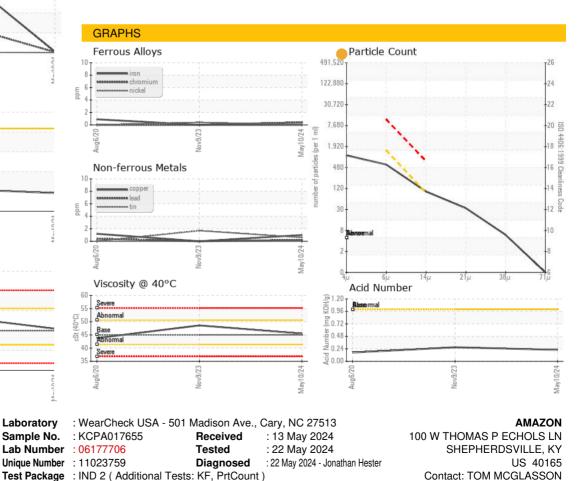






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	LAYRD
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG	▲ 5.0
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	45.5	48.6	43.8
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		

Bottom





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)

Report Id: AMASHE [WUSCAR] 06177706 (Generated: 05/22/2024 08:37:13) Rev: 1

Certificate 12367

Contact/Location: TOM MCGLASSON - AMASHE

tom.mcglasson@amazon.com

Т:

F: