

OIL ANALYSIS REPORT

ISO

Machine Id **35 FURNACE** Component **Gearbox**

Gearbox Fluid GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Due to an abnormal test result it is recommended to contact Stauff Corp at (201)-444-7800 for help resolving the issue.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

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

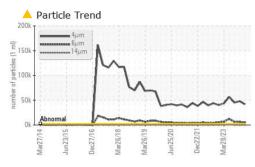
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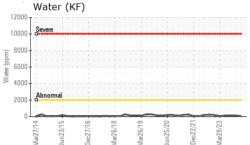
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST46367	ST43718	ST43573
Sample Date		Client Info		25 Mar 2024	20 Dec 2023	26 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	12	10	11
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm		>25	2	0	0
Lead	ppm		>100	0	0	0
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m	>25	0	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	50	8	9	9
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	50	<1	0	<1
Calcium	ppm	ASTM D5185m	50	6	1	2
Phosphorus	ppm	ASTM D5185m	350	497	436	401
Zinc	ppm	ASTM D5185m	100	7	0	3
Sulfur	ppm	ASTM D5185m	12500	7122	6165	6446
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	5	6
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	1
Water	%	ASTM D6304	>0.2	0.005	0.013	0.011
ppm Water	ppm	ASTM D6304	>2000	59	139	112.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	41844	48030	45106
Particles >6µm		ASTM D7647	>640	<u> </u>	6 117	▲ 6312
Particles >14µm		ASTM D7647	>160	76	118	44
Particles >21µm		ASTM D7647	>40	14	31	7
Particles >38µm		ASTM D7647	>10	1	2	3
Particles >71µm		ASTM D7647	>3	0	0	3
Oil Cleanliness		ISO 4406 (c)	>18/16/14	23/20/13	▲ 23/20/14	▲ 23/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.79	0.88	0.90

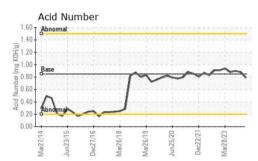
Contact/Location: Greg Walton - ZAPDAR Page 1 of 2

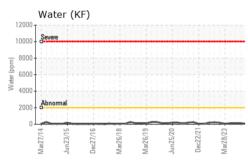


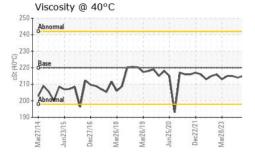
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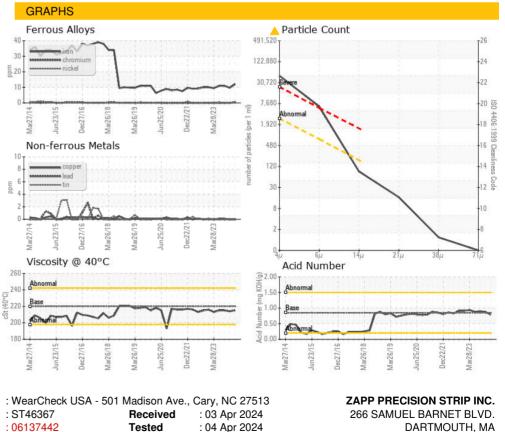






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	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	220	215	214	215
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•	•	

Bottom





: 04 Apr 2024 DARTMOUTH, MA : 05 Apr 2024 - Don Baldridge Contact: Greg Walton greg.walton@zapp.com

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnosed

Report Id: ZAPDAR [WUSCAR] 06137442 (Generated: 04/05/2024 18:00:39) Rev: 1

Laboratory

Contact/Location: Greg Walton - ZAPDAR Page 2 of 2

US 02745

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