

OIL ANALYSIS REPORT

NORMAL

Machine Id

42 IN FURNACE 42

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

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

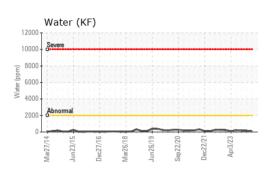
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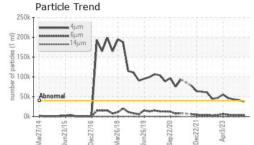
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST46352	ST43721	ST43879
Sample Date		Client Info		26 Mar 2024	20 Dec 2023	26 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	32	28	30
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	<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	6	7	7
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	50	1	0	<1
Calcium	ppm	ASTM D5185m	50	17	13	12
Phosphorus	ppm	ASTM D5185m	350	468	443	405
Zinc	ppm	ASTM D5185m	100	10	1	9
Sulfur	ppm	ASTM D5185m	12500	7643	6547	6837
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	3	3
Sodium	ppm	ASTM D5185m		4	3	4
Potassium	ppm	ASTM D5185m	>20	6	3	5
Water	%	ASTM D6304	>0.2	0.010	0.015	0.017
ppm Water	ppm	ASTM D6304	>2000	109	154	177.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>40000	38120	41469	43788
Particles >6µm		ASTM D7647	>5000	3254	3431	3860
Particles >14µm		ASTM D7647	>640	102	100	41
Particles >21µm		ASTM D7647	>160	27	28	5
Particles >38µm		ASTM D7647	>40	1	1	2
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>22/19/16	22/19/14	23/19/14	23/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.80	0.73	0.73

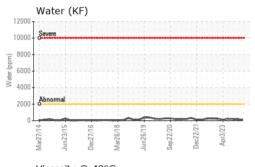
Contact/Location: Greg Walton - ZAPDAR Page 1 of 2

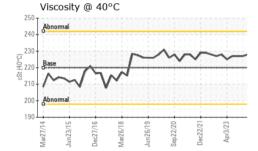


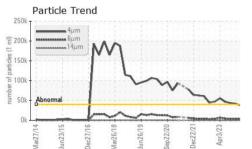
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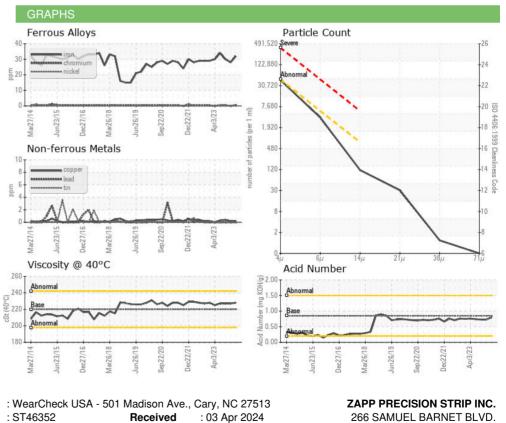








Bottom



: 04 Apr 2024

: 05 Apr 2024 - Don Baldridge



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

Laboratory

Sample No.

Lab Number : 06137429

Unique Number : 10956894

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

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Tested

Diagnosed

Report Id: ZAPDAR [WUSCAR] 06137429 (Generated: 04/05/2024 18:01:55) Rev: 1

Certificate 12367

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