

OIL ANALYSIS REPORT

VISCOSITY

Machine Id

42 IN MILL 50

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

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

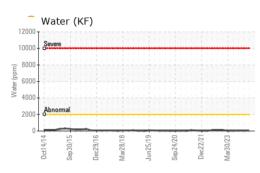
Fluid Condition

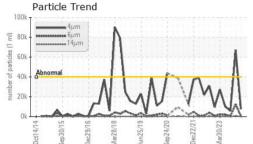
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

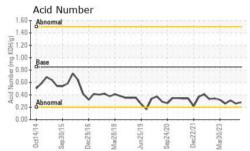
			15 Dec2016 Mar2018	Jun2019 Sep2020 Dec2021	Ma2023	•
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		ST43253	ST44461	ST43711
Sample Date		Client Info		26 Mar 2024	19 Dec 2023	28 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
-	1115	Client Info		N/A	N/A	N/A
Oil Changed Sample Status		Client Inio		ATTENTION	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>200	100	83	76
Chromium	ppm	ASTM D5185m		14	12	11
Nickel	ppm	ASTM D5105m ASTM D5185m	>15	8	6	6
Titanium		ASTM D5185m	210	<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	< 1
	ppm		> 2F	2		0
Aluminum	ppm	ASTM D5185m		_	0	
Lead	ppm	ASTM D5185m	>100	0	0	<1
Copper	ppm	ASTM D5185m		5	3	3
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	0	0	<1
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	<1	0	<1
Manganese	ppm	ASTM D5185m		4	4	3
Magnesium	ppm	ASTM D5185m	50	0	0	0
Calcium	ppm	ASTM D5185m	50	13	8	7
Phosphorus	ppm	ASTM D5185m	350	342	315	284
Zinc	ppm	ASTM D5185m	100	<1	0	0
Sulfur	ppm	ASTM D5185m	12500	8227	7749	8194
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	2
Sodium	ppm	ASTM D5185m		1	1	<1
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304	>0.2	0.004	0.003	0.004
ppm Water	ppm	ASTM D6304	>2000	47	33	43.9
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>40000	7678	67078	5709
Particles >6µm		ASTM D7647	>5000	242	12473	536
Particles >14µm		ASTM D7647	>640	9	542	37
Particles >21μm		ASTM D7647	>160	3	117	9
Particles >38µm		ASTM D7647	>40	1	2	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>22/19/16	20/15/10	▲ 23/21/16	20/16/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.28	0.26	0.31
	0 - 9			-		

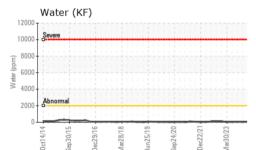


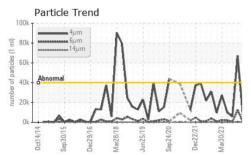
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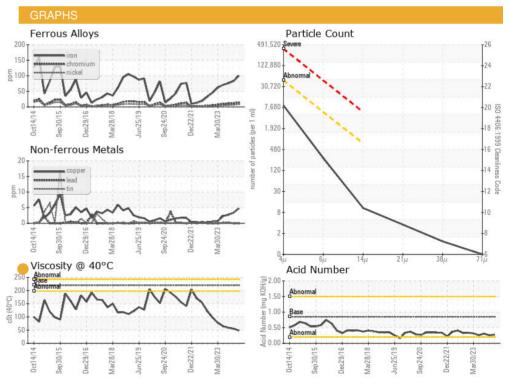


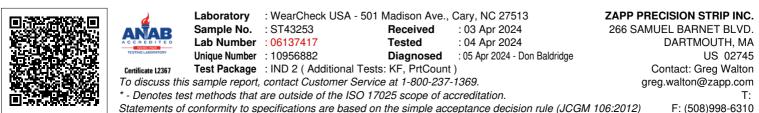






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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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