

OIL ANALYSIS REPORT

Sample Rating Trend



TM 7 TM 7 SHORT FIBER

Gearbox SHELL 220 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil. The water content is negligible.

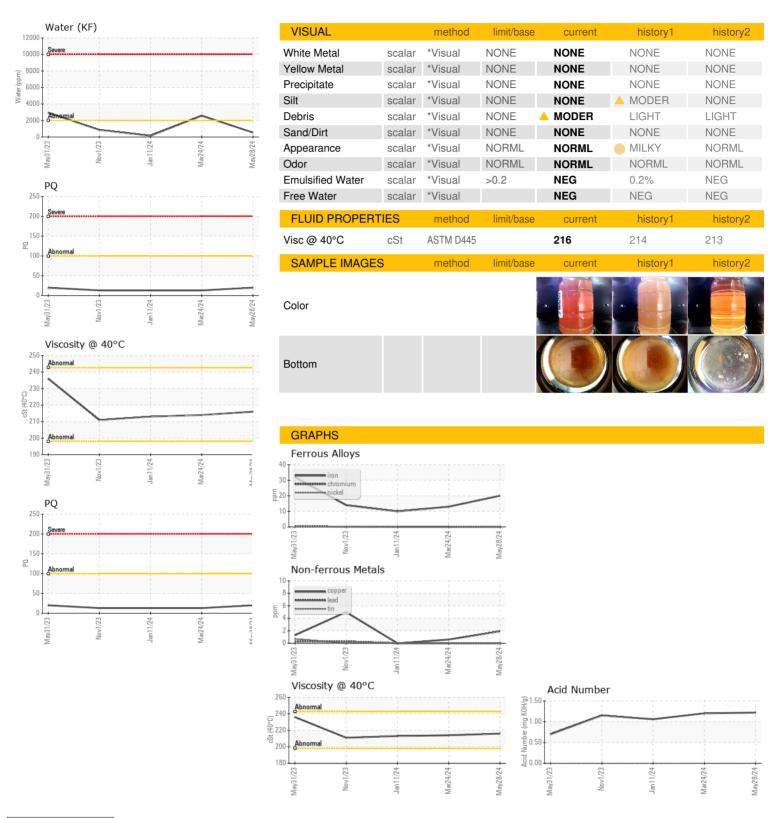
Fluid Condition

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

		May2023	Nov2023	Jan 2024 Mar 2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0037948	RP0030305	RP0030322
Sample Date		Client Info		28 May 2024	24 Mar 2024	11 Jan 2024
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	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		20	13	13
Iron	ppm	ASTM D5185m	>200	20	13	10
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	2	<1	0
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		105	111	124
Phosphorus	ppm	ASTM D5185m		995	1009	1033
Zinc	ppm	ASTM D5185m		1174	1169	1280
CONTAMINANTS	,	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	22	16	8
Sodium	ppm	ASTM D5185m		5	4	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.2	0.053	△ 0.258	0.015
ppm Water	ppm	ASTM D6304	>2000	539	△ 2580	155
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000			▲ 56724
Particles >6µm		ASTM D7647	>5000			▲ 5641
Particles >14µm		ASTM D7647	>640			249
Particles >21µm		ASTM D7647	>160			65
Particles >38μm		ASTM D7647	>40			3
Particles >71μm		ASTM D7647	>10			0
Oil Cleanliness		ISO 4406 (c)	>21/19/16			2 3/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		1.22	1.20	1.06



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Certificate 12367

Sample No.

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06205368

: RP0037948 Unique Number : 11072829

Tested : 10 Jul 2024 Diagnosed : 10 Jul 2024 - Sean Felton

Received

: 10 Jun 2024

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

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