

OIL ANALYSIS REPORT

WALPOLE Machine Id 946 - WALPOLE

Component

Front Differential

{not provided} (--- GAL)

Sep2022 Aug2023 Occ0023 Mad024

Sample Rating Trend



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 metal particles present in this sample.

Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

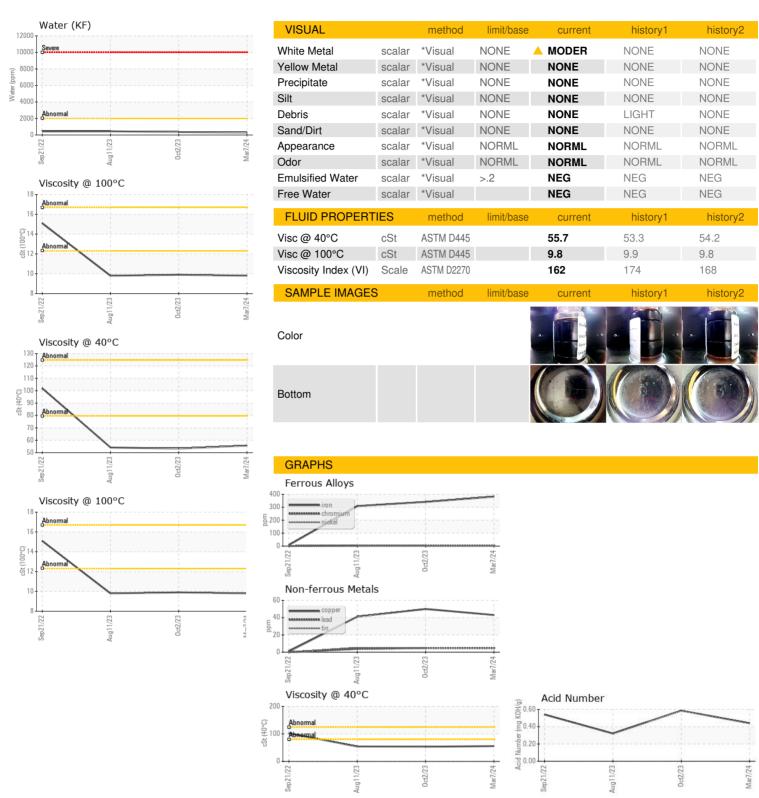
Fluid Condition

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

Smp2022 Aug2023 0rd2023 Mm2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900840	WC0876079	WC0853833
Sample Date		Client Info		07 Mar 2024	02 Oct 2023	11 Aug 2023
Machine Age	mls	Client Info		197674	162272	122540
Oil Age	mls	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	>500	382	341	309
Chromium	ppm	ASTM D5185m	>10	5	4	4
Nickel	ppm	ASTM D5185m	>10	2	2	1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	5	2	8
Lead	ppm	ASTM D5185m	>25	5	5	4
Copper	ppm	ASTM D5185m	>100	43	50	41
Tin	ppm	ASTM D5185m	>10	4	5	5
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		64	58	58
Barium	ppm	ASTM D5185m		<1	10	<1
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		11	10	9
Magnesium	ppm	ASTM D5185m		184	198	204
Calcium	ppm	ASTM D5185m		12	9	7
Phosphorus	ppm	ASTM D5185m		1730	1773	1760
Zinc	ppm	ASTM D5185m		10	6	9
Sulfur	ppm	ASTM D5185m		26410	28528	29538
CONTAMINANTS	,	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	42	46	42
Sodium	ppm	ASTM D5185m		5	<1	5
Potassium	ppm	ASTM D5185m	>20	2	2	1
Water	%	ASTM D6304	>.2	0.028	0.035	0.044
ppm Water	ppm	ASTM D6304	>2000	285	356	448.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		<u>^</u> 75183	△ 91766
Particles >6µm		ASTM D7647	>5000		8437	8285
Particles >14µm		ASTM D7647	>640		442	211
Particles >21µm		ASTM D7647	>160		116	71
Particles >38μm		ASTM D7647	>40		5	5
Particles >71μm		ASTM D7647	>10		0	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16		△ 23/20/16	2 4/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.44	0.586	0.32



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Laboratory Sample No. Lab Number

Unique Number: 10950869

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0900840 : 06131404

Received **Tested** Diagnosed

: 02 Apr 2024

: 02 Apr 2024 - Jonathan Hester

: 27 Mar 2024

Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI) 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.

BASF - GIANNA CREDAROLI

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T: F:

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