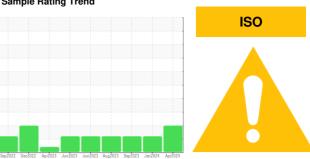


# **OIL ANALYSIS REPORT**

Sample Rating Trend



# Area WALPOLE Machine id 943 - WALPOLE

Rear Differential

{not provided} (--- GAL)

## DIAGNOSIS

### Recommendation

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

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

### **Fluid Condition**

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

		Sep2022 Dec	.2022 Apr2023 Jun2023	Jun2023 Aug2023 Sep2023 Jan20	24 Apr2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934500	WC0900919	WC0853877
Sample Date		Client Info		24 Apr 2024	18 Jan 2024	21 Sep 2023
Machine Age	mls	Client Info		220893	184102	144700
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	192	172	164
Chromium	ppm	ASTM D5185m	>10	3	3	3
Nickel	ppm	ASTM D5185m	>10	1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	9	8	7
Lead	ppm	ASTM D5185m	>25	0	2	0
Copper	ppm	ASTM D5185m	>100	2	3	1
Tin	ppm	ASTM D5185m	>10	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		70	66	62
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		8	9	7
Magnesium	ppm	ASTM D5185m		195	197	197
Calcium	ppm	ASTM D5185m		10	10	7
Phosphorus	ppm	ASTM D5185m		1792	1687	1684
Zinc	ppm	ASTM D5185m		11	11	10
Sulfur	ppm	ASTM D5185m		29888	23606	24796
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	48	48	49
Sodium	ppm	ASTM D5185m		4	5	3
Potassium	ppm	ASTM D5185m		2	4	<1
Water	%	ASTM D6304	>.2	0.030	0.036	0.019
ppm Water	ppm	ASTM D6304	>2000	305	367	197.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u>▲</u> 304455	▲ 82076	▲ 87305
Particles >6µm		ASTM D7647	>5000	<u> </u>	9145	5826
Particles >14μm		ASTM D7647	>640	<u> 5202</u>	161	46
Particles >21µm		ASTM D7647	>160	<u>▲</u> 635	32	5
Particles >38µm		ASTM D7647	>40	4	2	0
Particles >71μm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>25/24/20</b>	<b>2</b> 4/20/15	<b>2</b> 4/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.44	0.47	0.46



# **OIL ANALYSIS REPORT**







Certificate 12367

Sample No.

Laboratory

: WC0934500 Lab Number : 06179389 Unique Number : 11030715

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 16 May 2024 - Angela Borella Test Package : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

: 14 May 2024

: 16 May 2024

\* - 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)

**BASF - GIANNA CREDAROLI** 500 WHITE PLAINS RD

TARRYTOWN, NY US 10591

Contact: GIANNA CREDAROLI gianna.credaroli@basf.com

T: F: