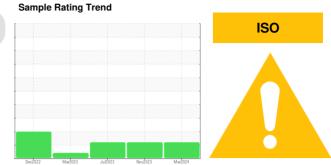


# **OIL ANALYSIS REPORT**

Area
WALPOLE
Machine id 941 - 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 silt (particulates < 14 microns in size) present in the oil.

### **Fluid Condition**

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

		Dec2022	Mar2023	Jul2023 Nov2023	Mar2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0934490	WC0876013	WC0828729
Sample Date		Client Info		14 Mar 2024	14 Nov 2023	11 Jul 2023
Machine Age	mls	Client Info		206435	162386	118161
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	181	188	183
Chromium	ppm	ASTM D5185m	>10	3	3	3
Nickel	ppm	ASTM D5185m	>10	2	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	6	9
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	<1	<1	1
Tin	ppm	ASTM D5185m	>10	<1	<1	<1
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		66	60	78
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		10	10	10
Magnesium	ppm	ASTM D5185m		189	197	180
Calcium	ppm	ASTM D5185m		10	8	7
Phosphorus	ppm	ASTM D5185m		1712	1765	1675
Zinc	ppm	ASTM D5185m		14	0	14
Sulfur	ppm	ASTM D5185m		29374	24906	25441
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	39	43	44
Sodium	ppm	ASTM D5185m		4	3	0
Potassium	ppm	ASTM D5185m	>20	3	<1	1
Water	%	ASTM D6304	>.2	0.032	0.018	0.045
ppm Water	ppm	ASTM D6304	>2000	320	181	456.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>A</b> 84300	<b>△</b> 69600	<u> </u>
Particles >6µm		ASTM D7647	>5000	<b>7012</b>	<u>▲</u> 6614	<u>▲</u> 16327
Particles >14μm		ASTM D7647	>640	80	226	218
Particles >21µm		ASTM D7647	>160	19	62	44
Particles >38μm		ASTM D7647	>40	2	2	1
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/20/13	<u>△</u> 23/20/15	<u>4</u> 24/21/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.50	0.47	0.64



## OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

Lab Number

: WC0934490 : 06179405 Unique Number : 11030731

Received : 14 May 2024 **Tested** 

: 20 May 2024 Diagnosed : 21 May 2024 - Jonathan Hester

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

 $^st$  - 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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