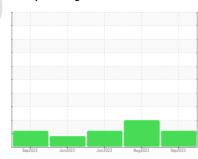


# **OIL ANALYSIS REPORT**

# WALPOLE Machine Id 943 - WALPOLE

**Front Differential** 

NOT GIVEN (--- GAL)



Sample Rating Trend



## **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.

		Sep2022	Jun2023	Jun2023 Aug2023	Sep 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853876	WC0843159	WC0828725
Sample Date		Client Info		21 Sep 2023	01 Aug 2023	29 Jun 2023
Machine Age	mls	Client Info		144700	125562	116673
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	343	358	309
Chromium	ppm	ASTM D5185m	>10	4	4	4
Nickel	ppm	ASTM D5185m	>10	2	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	4	3	3
Lead	ppm	ASTM D5185m	>25	6	6	4
Copper	ppm	ASTM D5185m	>100	57	56	53
Tin	ppm	ASTM D5185m	>10	6	7	6
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		62	83	77
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		7	8	7
Magnesium	ppm	ASTM D5185m		200	207	197
Calcium	ppm	ASTM D5185m		6	0	7
Phosphorus	ppm	ASTM D5185m		1700	1782	1694
Zinc	ppm	ASTM D5185m		7	0	7
Sulfur	ppm	ASTM D5185m		26710	25056	25056
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	41	39	36
Sodium	ppm	ASTM D5185m		3	3	4
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>.2	0.014	0.060	0.028
ppm Water	ppm	ASTM D6304	>2000	147.7	605.3	287.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	<u>▲</u> 173142	<u> </u>
Particles >6µm		ASTM D7647	>5000	<u> </u>	<b>△</b> 91614	<u>▲</u> 17512
Particles >14µm		ASTM D7647	>640	103	<b>4168</b>	113
Particles >21µm		ASTM D7647	>160	19	<b>▲</b> 763	21
Particles >38µm		ASTM D7647	>40	1	37	0
Particles >71µm		ASTM D7647	>10	1	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>24/21/14</b>	<u>△</u> 25/24/19	<u>4</u> 24/21/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.43	0.49	0.41



# **OIL ANALYSIS REPORT**

