

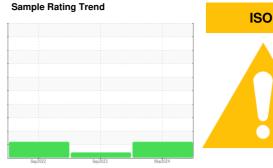
# **OIL ANALYSIS REPORT**

# WALPOLE 942 - WALPOLE

Component

**Front 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.

		Sej	2022	Sep 2023 Mar 20	124	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900842	WC0853868	WC0751728
Sample Date		Client Info		07 Mar 2024	07 Sep 2023	06 Sep 2022
Machine Age	mls	Client Info		149189	116495	781
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	252	234	37
Chromium	ppm	ASTM D5185m	>10	3	3	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m		4	2	1
Lead	ppm	ASTM D5185m	>25	4	3	<1
Copper	ppm	ASTM D5185m		35	27	4
Tin	ppm	ASTM D5185m	>10	4	3	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		66	66	74
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		9	7	5
Magnesium	ppm	ASTM D5185m		186	193	189
Calcium	ppm	ASTM D5185m		10	2	7
Phosphorus	ppm	ASTM D5185m		1704	1583	1687
Zinc	ppm	ASTM D5185m		6	6	15
Sulfur	ppm	ASTM D5185m		25374	26545	30371
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	45	39	29
Sodium	ppm	ASTM D5185m		2	3	7
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water	%	ASTM D6304	>.2	0.023	0.056	0.042
ppm Water	ppm	ASTM D6304	>2000	232	568.9	427.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>		<u></u> 159052
Particles >6µm		ASTM D7647	>5000	<u>23597</u>		<u></u> 55392
Particles >14µm		ASTM D7647	>640	275		584
Particles >21µm		ASTM D7647	>160	36		44
Particles >38µm		ASTM D7647	>40	0		1
Particles >71µm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>25/22/15</u>		<b>2</b> 4/23/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.51	0.51



# **OIL ANALYSIS REPORT**

