

# **OIL ANALYSIS REPORT**

# **WALPOLE** 943 - WALPOLE

**Front Differential** 

NOT GIVEN (--- GAL)

# 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 a high concentration of particles present in this sample.

All component wear rates are normal.

### Contamination

There is a moderate amount of visible silt present in the sample.

### **Fluid Condition**

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

			Sep2022	Jun 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0828702	WC0751724	
Sample Date		Client Info		02 Jun 2023	13 Sep 2022	
Machine Age	mls	Client Info		106319	799	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	303	37	
Chromium	ppm	ASTM D5185m	>10	4	<1	
Nickel	ppm	ASTM D5185m	>10	2	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	4	<1	
Lead	ppm	ASTM D5185m	>25	6	0	
Copper	ppm	ASTM D5185m	>100	50	<1	
Tin	ppm	ASTM D5185m	>10	7	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		67	77	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		7	7	
Magnesium	ppm	ASTM D5185m		204	192	
Calcium	ppm	ASTM D5185m		5	8	
Phosphorus	ppm	ASTM D5185m		1823	1720	
Zinc	ppm	ASTM D5185m		0	18	
Sulfur	ppm	ASTM D5185m		31695	31075	
CONTAMINANTS		method	limit/base	current	history1	history2
						motory
Silicon	ppm	ASTM D5185m	>75	34	19	
Sodium	ppm	ASTM D5185m	00	3	5	
Potassium	ppm	ASTM D5185m	>20	3	1	
Water ppm Water	%	ASTM D6304 ASTM D6304	>.2	0.030 302.2	0.040 406.5	
• •	ppm					
FLUID CLEANLIN	NEOO	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000 >5000		▲ 173968 ▲ 65004	
Particles >6µm		ASTM D7647			65004	
Particles >14µm		ASTM D7647	>640		540	
Particles >21µm		ASTM D7647	>160		30	
Particles >38µm		ASTM D7647	>40			
Particles >71µm		ASTM D7647	>10		1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		<u>\$\text{25}/23/16}</u>	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.52	



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: WC0828702 : 05881490 : 10526593

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

: 20 Jul 2023 Diagnostician : Doug Bogart Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

: 22 Jun 2023

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** 500 WHITE PLAINS RD

TARRYTOWN, NY US 10591

Contact: GIANNA CREDAROLI gianna.credaroli@basf.com

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