

## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

### Area WALPOLE Machine Id 136 - WALPOLE Front Differential Fluid

{not provided} (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

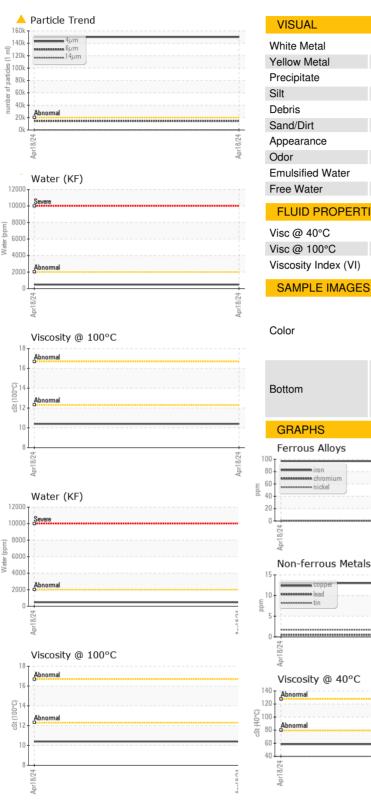
#### Fluid Condition

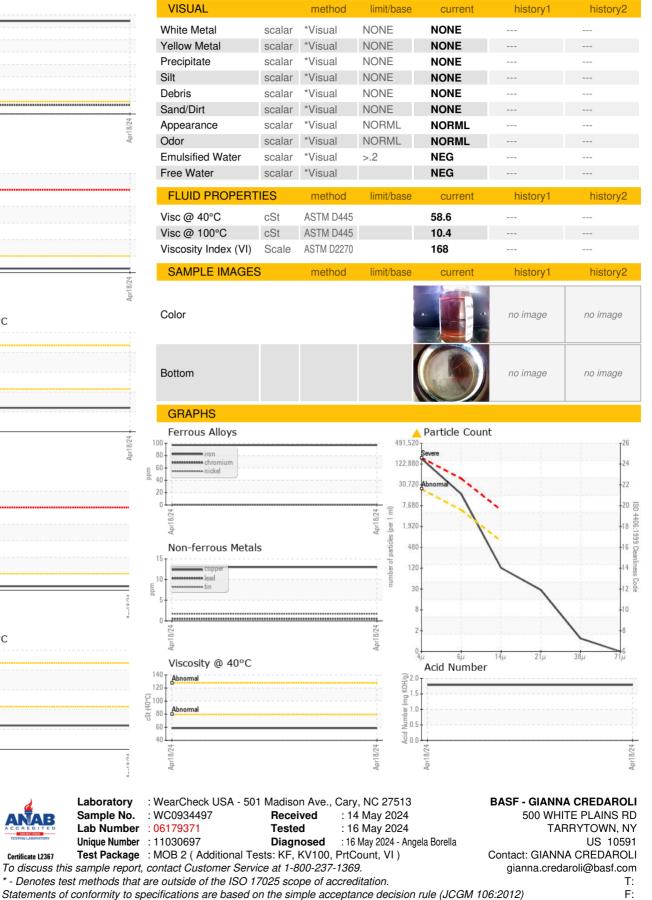
The AN level is acceptable for this fluid.

Sample Number Sample Date Machine Age		method	limit/base	current	history1	history2
-		Client Info		WC0934497		
Machine Age		Client Info		18 Apr 2024		
	mls	Client Info		42424		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	97		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	2		
Lead	ppm	ASTM D5185m	>25	- <1		
Copper	ppm	ASTM D5185m		13		
Tin	ppm	ASTM D5185m	>10	2		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		231		
Barium	ppm	ASTM D5185m		3		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		6		
Magnesium	ppm	ASTM D5185m		42		
Calcium	ppm	ASTM D5185m		6		
Phosphorus	ppm	ASTM D5185m		1668		
Zinc	ppm	ASTM D5185m		11		
Sulfur	ppm	ASTM D5185m		30384		
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	33		
	ppm ppm	ASTM D5185m ASTM D5185m	>75	33 4		
Silicon Sodium Potassium			>75 >20			
Sodium Potassium	ppm	ASTM D5185m	>20	4		
Sodium Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m	>20 >.2	4 3		
Sodium Potassium Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304	>20 >.2	4 3 0.048		
Sodium Potassium Water ppm Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >.2 >2000	4 3 0.048 481		
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>20 >.2 >2000 limit/base	4 3 0.048 481 current		
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>20 >.2 >2000 limit/base >20000	4 3 0.048 481 <u>current</u> ▲ 150090	   history1 	
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000	4 3 0.048 481 <u>current</u> ▲ 150090 ▲ 14497	   history1 	
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000 >640	4 3 0.048 481 ▲ 150090 ▲ 14497 108	  history1  	  history2  
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40	4 3 0.048 481	  history1  	  history2  
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 limit/base >20000 >5000 >5000 >640 >160 >40	4 3 0.048 481	  history1   	  history2   
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm VESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >.2 >2000 <b>limit/base</b> >20000 >5000 >5000 >640 >160 >40 >10	4 3 0.048 481 <urrent ▲ 150090 ▲ 14497 108 25 1 0</urrent 	  history1    	  history2       



# **OIL ANALYSIS REPORT**





Report Id: bastarhd [WUSCAR] 06179371 (Generated: 05/16/2024 19:16:02) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number

Unique Number : 11030697

: 06179371

Contact/Location: GIANNA CREDAROLI - BASTARHD