

OIL ANALYSIS REPORT

Sample Rating Trend



WALPOLE 942 - WALPOLE Component

Rear Differential Fluid {not provided} (--- GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

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. The condition of the oil is suitable for further service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900841	WC0853869	WC0797116
Sample Date		Client Info		07 Mar 2024	07 Sep 2023	10 Jan 2023
Machine Age	mls	Client Info		149189	116495	40191
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	284	228	165
Chromium	ppm	ASTM D5185m	>10	5	3	2
Nickel	ppm	ASTM D5185m	>10	1	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	11	7	2
Lead	ppm	ASTM D5185m	>25	<1	0	1
Copper	ppm		>100	3	2	24
Tin	ppm	ASTM D5185m	>100	۲ ۲	<1	3
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		65	75	67
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		<1	0	<1
Manganese	ppm	ASTM D5185m		14	9	6
Magnesium	ppm	ASTM D5185m		178	200	179
Calcium	ppm	ASTM D5185m		15	6	<1
Phosphorus	ppm	ASTM D5185m		1756	1719	1552
Zinc	ppm	ASTM D5185m		15	12	4
Sulfur	ppm	ASTM D5185m		26756	28480	24612
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	52	48	38
Sodium	ppm	ASTM D5185m		4	3	4
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>.2	0.038	0.043	0.029
ppm Water	ppm	ASTM D6304	>2000	385	439.3	298.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 306436	🔺 151499	
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u> </u>	
Particles >14µm		ASTM D7647	>640	201	230	
Particles >21µm		ASTM D7647	>160	22	42	
Particles >38µm		ASTM D7647	>40	0	3	
Particles >71µm		ASTM D7647	>10	0	1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/24/15	4 /23/15	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.34	0.40	0.44

Contact/Location: GIANNA CREDAROLI - BASTARHD



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Water

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1000

600

4000

200

130 120

110

70 60

50

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Water (

Sep6/22

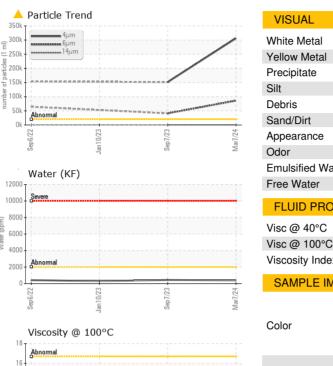
Water (KF)

Viscosity @ 40°C

Jan 10/23

OIL ANALYSIS REPORT

method





limit/base

current

history1

history2

Bottom

