

OIL ANALYSIS REPORT

Sample Rating Trend



Area WALPOLE Machine Id 944 - WALPOLE Component Front Differential Fluid {not provided} (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

High concentration of visible dirt/debris 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 Number Client Info 22 Feb 204 18 Dec 2023 0.0 Cot 2023 Machine Age mis Client Info 22 Feb 204 18 Dec 2023 107668 117268 Oil Age mis Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A WEAR METALS method Into ABNORMAL ABNORMAL ABNORMAL WEAR METALS method Into 406 348 331 Chromium ppm ASTM05185 >10 <1 2 2 Nickel ppm ASTM05185 >10 <1 310 <1 Silver ppm ASTM05185 >10 <1 <1 <1 Silver ppm ASTM05185 >10 <1 <1 <1 Copper ppm ASTM05185 >10 <1 <1 <1 Vanadium ppm ASTM05185 >10 <1 <1 <1 Silver ppm ASTM05185 >10 <1 <1 <1 Cadmium ppm ASTM05185 >10 <1 <1 <1 Silver ppm ASTM05185 >10	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age mis Client Info 155858 137668 117268 Oil Age mis Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A ABNORMAL Sample Status Im Im RBNORMAL ABNORMAL ABNORMAL ABNORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM DS185m >10 <1 2 2 Nickel ppm ASTM DS185m >10 <1 <1 <1 Silver ppm ASTM DS185m >25 4 4 2 Copper ppm ASTM DS185m >25 2 6 4 Cadmium ppm ASTM DS185m >10 4 5 4 Vanadium ppm ASTM DS185m >10 4 5 4 Adminum ppm ASTM DS185m >10 4 1 3 Cadmium ppm ASTM DS185m >10 1 9 Magaenese ppm ASTM DS185m <1 1 1 Magaenesium ppm ASTM DS185m <10 1	Sample Number		Client Info		WC0900858	WC0900926	WC0876081
Machine Age mis Client Info 155858 137668 117268 Oil Age mis Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A ABNORMAL Sample Status Im Im RBNORMAL ABNORMAL ABNORMAL ABNORMAL WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM DS185m >10 <1 2 2 Nickel ppm ASTM DS185m >10 <1 <1 <1 Silver ppm ASTM DS185m >25 4 4 2 Copper ppm ASTM DS185m >25 2 6 4 Cadmium ppm ASTM DS185m >10 4 5 4 Vanadium ppm ASTM DS185m >10 4 5 4 Adminum ppm ASTM DS185m >10 4 1 3 Cadmium ppm ASTM DS185m >10 1 9 Magaenese ppm ASTM DS185m <1 1 1 Magaenesium ppm ASTM DS185m <10 1	Sample Date		Client Info		22 Feb 2024	18 Dec 2023	02 Oct 2023
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Titanium ppm ASTM D5185m <1 <1 <1 <1 <1 Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >25 4 4 2 Lead ppm ASTM D5185m >215 2 6 4 Copper ppm ASTM D5185m >100 41 38 39 Tin ppm ASTM D5185m >100 4 5 4 Vanadium ppm ASTM D5185m 0 <1	Nickel		ASTM D5185m	>10	<1		2
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Tin ppm ASTM D5185m >10 4 5 4 Vanadium ppm ASTM D5185m 0 <1	Copper		ASTM D5185m	>100	41	38	39
Vanadium ppm ASTM D5185m 0 <1					4		
Cadmium ppm ASTM D5185m 0 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 63 63 65 Barium ppm ASTM D5185m 0 1 9 Molybdenum ppm ASTM D5185m <1 <1 <1 <1 Manganese ppm ASTM D5185m 100 10 8 Magnesium ppm ASTM D5185m 192 197 201 Calcium ppm ASTM D5185m 9 10 8 Phosphorus ppm ASTM D5185m 77 9 2 Sulfur ppm ASTM D5185m 75 50 46 47 Sodium ppm ASTM D5185m >20 0 41 1 Vater % ASTM D5185m >20 0.032 0.043 0.034 ppm Water ppm ASTM D5185m	Vanadium		ASTM D5185m		0	<1	0
Boron ppm ASTM D5185m 63 63 65 Barium ppm ASTM D5185m 0 1 9 Molybdenum ppm ASTM D5185m <1	Cadmium		ASTM D5185m		0	<1	<1
Barium ppm ASTM D5185m 0 1 9 Molybdenum ppm ASTM D5185m <1 <1 <1 <1 Manganese ppm ASTM D5185m 100 10 8 Magnesium ppm ASTM D5185m 192 197 201 Calcium ppm ASTM D5185m 192 197 201 Calcium ppm ASTM D5185m 9 10 8 Phosphorus ppm ASTM D5185m 7 9 2 Sulfur ppm ASTM D5185m 7 9 2 Sulfur ppm ASTM D5185m 75 50 46 47 Sodium ppm ASTM D5185m >20 0 4 1 Vater % ASTM D5185m >20 0 430 342 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >2000 </th <th>ADDITIVES</th> <th></th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m <1	Boron	ppm	ASTM D5185m		63	63	65
Maganese ppm ASTM D5185m 10 10 8 Magnesium ppm ASTM D5185m 192 197 201 Calcium ppm ASTM D5185m 9 10 8 Phosphorus ppm ASTM D5185m 1754 1687 1741 Zinc ppm ASTM D5185m 7 9 2 Sulfur ppm ASTM D5185m 7 9 2 Sulfur ppm ASTM D5185m 28096 23306 27847 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >75 50 46 47 Sodium ppm ASTM D5185m >20 0 4 1 Water % ASTM D6304 >.2 0.032 0.043 0.034 pm Water ppm ASTM D7647 >20000 4 249971 4 132291 Parti	Barium	ppm	ASTM D5185m		0	1	9
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Particles >6µm ASTM D7647 >5000 ▲ 127136 ▲ 20842 Particles >14µm ASTM D7647 >640 ▲ 7875 426 Particles >21µm ASTM D7647 >160 ▲ 1209 92 Particles >38µm ASTM D7647 >40 31 3 Particles >38µm ASTM D7647 >10 3 0 Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/24/20 ▲ 24/22/16 FLUID DEGRADATION method limit/base current history1 history2	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
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Particles >71μm ASTM D7647 >10 3 0 Oil Cleanliness ISO 4406 (c) >21/19/16 ▲ 25/24/20 ▲ 24/22/16 FLUID DEGRADATION method limit/base current history1 history2							
Oil Cleanliness ISO 4406 (c) >21/19/16							
FLUID DEGRADATION method limit/base current history1 history2							
	Oil Cleanliness		ISO 4406 (c)	>21/19/16		▲ 25/24/20	▲ 24/22/16
Acid Number (AN) mg KOH/g ASTM D8045 1.01 0.35 0.65	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.01	0.35	0.65



00 ^{cSt} (40°C) 08 ^{cSt} (40°C)

7(60 50 Oct18/22

18

16

cSt (100°C)

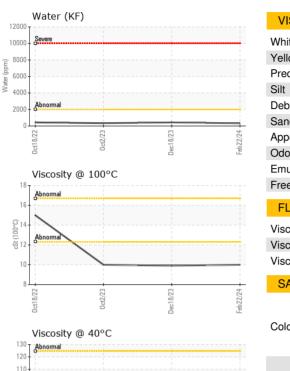
10

8

0ct18/22

0ct2/23

OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	🔺 HEAVY	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		54.4	54.1	54.3
Visc @ 100°C	cSt	ASTM D445		10.0	9.9	10.0
Viscosity Index (VI)	Scale	ASTM D2270		173	171	173
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Calar					Free	
Color					Unit Coord	a



Bottom

