

OIL ANALYSIS REPORT

Sample Rating Trend



WALPOLE Machine Id 943 - WALPOLE

Component Rear Differential Fluid NOT GIVEN (--- GAL)

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 metal particles present in this sample.

🔺 Wear

Moderate concentration of visible metal present. All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

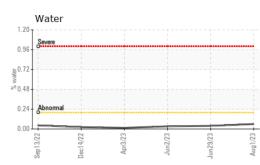
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

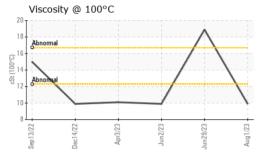
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843158	WC0828726	WC0828703
Sample Date		Client Info		01 Aug 2023	29 Jun 2023	02 Jun 2023
Machine Age	mls	Client Info		125562	116673	106319
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	167	151	136
Chromium	ppm	ASTM D5185m	>10	3	3	3
Nickel	ppm	ASTM D5185m	>10	<1	<1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	8	7
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m		2	<1	<1
Tin	ppm	ASTM D5185m	>10	_ <1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		73	78	70
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		7	7	6
Magnesium	ppm	ASTM D5185m		208	199	207
Calcium	ppm	ASTM D5185m		6	8	7
Phosphorus	ppm	ASTM D5185m		1781	1674	1820
Zinc	ppm	ASTM D5185m		9	11	0
Sulfur	ppm	ASTM D5185m		29138	27481	31756
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	49	48	44
Sodium	ppm	ASTM D5185m		5	<1	3
Potassium	ppm	ASTM D5185m	>20	<1	1	3
Water	%	ASTM D6304	>.2	0.060	0.038	0.032
ppm Water	ppm	ASTM D6304	>2000	607.9	382.2	324.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		▲ 95728	▲ 106340
Particles >6µm		ASTM D7647	>5000		A 7446	1 3504
Particles >14µm		ASTM D7647	>640		45	435
Particles >21µm		ASTM D7647	>160		10	92
Particles >38µm		ASTM D7647	>40		1	8
Particles >71µm		ASTM D7647	>10		0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16		4 /20/13	▲ 24/21/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.51	0.49	0.45

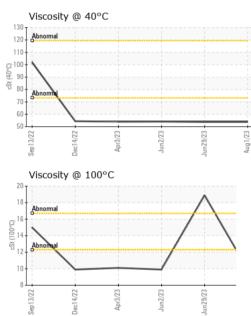
Contact/Location: GIANNA CREDAROLI - BASTARHD



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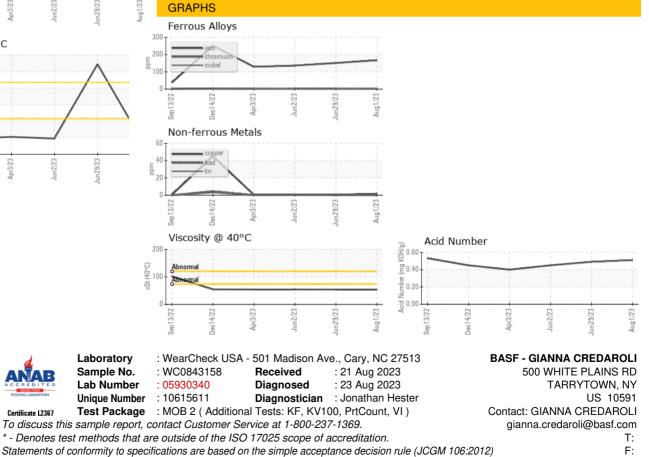




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	A MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		53.8	53.8	54.1
Visc @ 100°C	cSt	ASTM D445		9.9	18.9	9.9
Viscosity Index (VI)	Scale	ASTM D2270		172	368	171
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color					X II	

Bottom





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