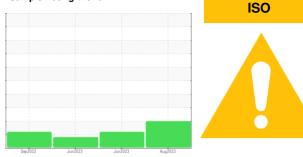


OIL ANALYSIS REPORT

Sample Rating Trend

SAMPLE INFORMATION method limit/base



current

history1

history2

Area WALPOLE Machine Id 943 - WALPOLE Component Front Differential

NOT GIVEN (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates of elemental data.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

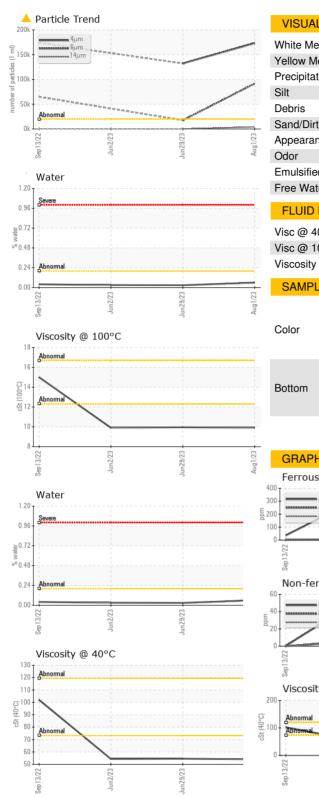
Fluid Condition

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

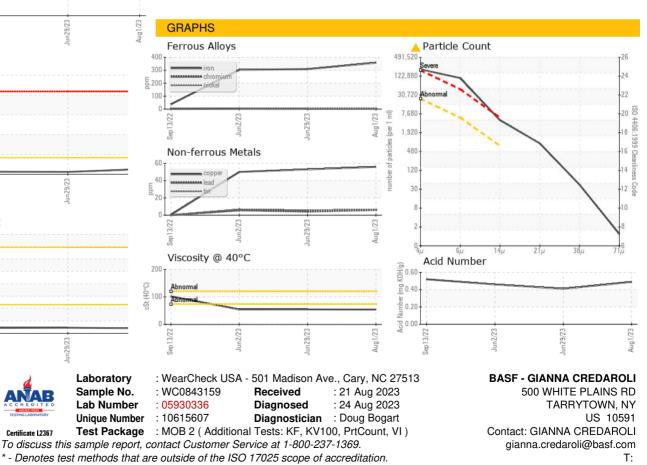
SAMPLE INFORM	VIATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0843159	WC0828725	WC0828702
Sample Date		Client Info		01 Aug 2023	29 Jun 2023	02 Jun 2023
Machine Age	mls	Client Info		125562	116673	106319
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	358	309	303
Chromium	ppm	ASTM D5185m	>10	4	4	4
Nickel	ppm	ASTM D5185m	>10	1	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	3	4
Lead	ppm	ASTM D5185m	>25	6	4	6
Copper	ppm	ASTM D5185m	>100	56	53	50
Tin	ppm	ASTM D5185m	>10	7	6	7
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		83	77	67
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		8	7	7
Magnesium	ppm	ASTM D5185m		207	197	204
Calcium	ppm	ASTM D5185m		0	7	5
Phosphorus	ppm	ASTM D5185m		1782	1694	1823
Zinc	ppm	ASTM D5185m		0	7	0
Sulfur	ppm	ASTM D5185m		25056	25056	31695
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	39	36	34
Sodium	ppm	ASTM D5185m		3	4	3
Potassium	ppm	ASTM D5185m	>20	<1	0	3
Water	%	ASTM D6304	>.2	0.060	0.028	0.030
ppm Water	ppm	ASTM D6304	>2000	605.3	287.4	302.2
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 173142	▲ 132158	
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u> </u>	
Particles >14µm		ASTM D7647	>640	<u> </u>	113	
Particles >21µm		ASTM D7647	>160	<mark>人</mark> 763	21	
Particles >38µm		ASTM D7647	>40	37	0	
Particles >71µm		ASTM D7647	>10	1	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/24/19	▲ 24/21/14	
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49	0.41	0.46



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	A MODER
Debris	scalar	*Visual	NONE	NONE	LIGHT	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		54.0	54.5	54.3
Visc @ 100°C	cSt	ASTM D445		9.9	9.95	9.9
Viscosity Index (VI)	Scale	ASTM D2270		172	171	170
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				Page 1	Hard Bard	



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

Certificate L2367

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