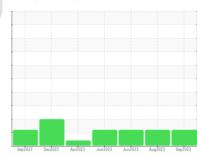


OIL ANALYSIS REPORT

WALPOLE 943 - WALPOLE

Rear Differential

NOT GIVEN (--- GAL)



Sample Rating Trend



DIAGNOSIS

Recommendation

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

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.

		Sep2022	Dec2022 Apr2023	Jun2023 Jun2023 Aug2023	Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0853877	WC0843158	WC0828726
Sample Date		Client Info		21 Sep 2023	01 Aug 2023	29 Jun 2023
Machine Age	mls	Client Info		144700	125562	116673
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	164	167	151
Chromium	ppm	ASTM D5185m	>10	3	3	3
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	7	8
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>100	1	2	<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		62	73	78
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		7	7	7
Magnesium	ppm	ASTM D5185m		197	208	199
Calcium	ppm	ASTM D5185m		7	6	8
Phosphorus	ppm	ASTM D5185m		1684	1781	1674
Zinc	ppm	ASTM D5185m		10	9	11
Sulfur	ppm	ASTM D5185m		24796	29138	27481
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	49	49	48
Sodium	ppm	ASTM D5185m		3	5	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	1
Water	%	ASTM D6304	>.2	0.019	0.060	0.038
ppm Water	ppm	ASTM D6304	>2000	197.5	607.9	382.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 87305		△ 95728
Particles >6µm		ASTM D7647	>5000	△ 5826		<u>^</u> 7446
Particles >14µm		ASTM D7647	>640	46		45
Particles >21µm		ASTM D7647	>160	5		10
Particles >38µm		ASTM D7647	>40	0		1
Particles >71µm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	24/20/13		2 4/20/13
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.51	0.49



OIL ANALYSIS REPORT



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

F: