

OIL ANALYSIS REPORT

DAYTON FREIGHT **DAYTON FREIGHT 423811**

Component

Front Differential

{not provided} (--- GAL)

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.





SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
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Sample Number Sample Date		Client Info		WC0900834 07 Jan 2024	23 Jun 2023	
Machine Age	mls	Client Info		54401	51	
Oil Age	mls	Client Info		0	0	
Oil Changed	11110	Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	242	16	
Chromium	ppm	ASTM D5185m	>10	3	0	
Nickel	ppm	ASTM D5185m	>10	2	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		<1	0	
Aluminum	ppm	ASTM D5185m	>25	2	0	
Lead	ppm	ASTM D5185m	>25	2	0	
Copper	ppm	ASTM D5185m	>100	15	0	
Tin	ppm	ASTM D5185m	>10	1	<1	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		101	100	
Barium	ppm	ASTM D5185m		1	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		9	1	
Magnesium	ppm	ASTM D5185m		165	198	
Calcium	ppm	ASTM D5185m		12	2	
Phosphorus	ppm	ASTM D5185m		1669	1637	
Zinc	ppm	ASTM D5185m		7	0	
Sulfur	ppm	ASTM D5185m		26321	25056	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	26	4	
Sodium	ppm	ASTM D5185m		3	0	
Potassium	ppm	ASTM D5185m	>20	2	0	
Water	%	ASTM D6304		0.030	0.033	
ppm Water	ppm	ASTM D6304	>2000	307	330.8	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u>118604</u>	<u>112497</u>	
Particles >6µm		ASTM D7647	>5000	8083	<u>^</u> 27229	
Particles >14µm		ASTM D7647	>640	86	555	
Particles >21µm		ASTM D7647	>160	16	98	
Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647	>160 >40	16 1	98 4	
Particles >21μm Particles >38μm Particles >71μm		ASTM D7647 ASTM D7647 ASTM D7647	>160 >40 >10	16 1 0	98 4 0	
Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647	>160 >40	16 1	98 4	

Acid Number (AN)

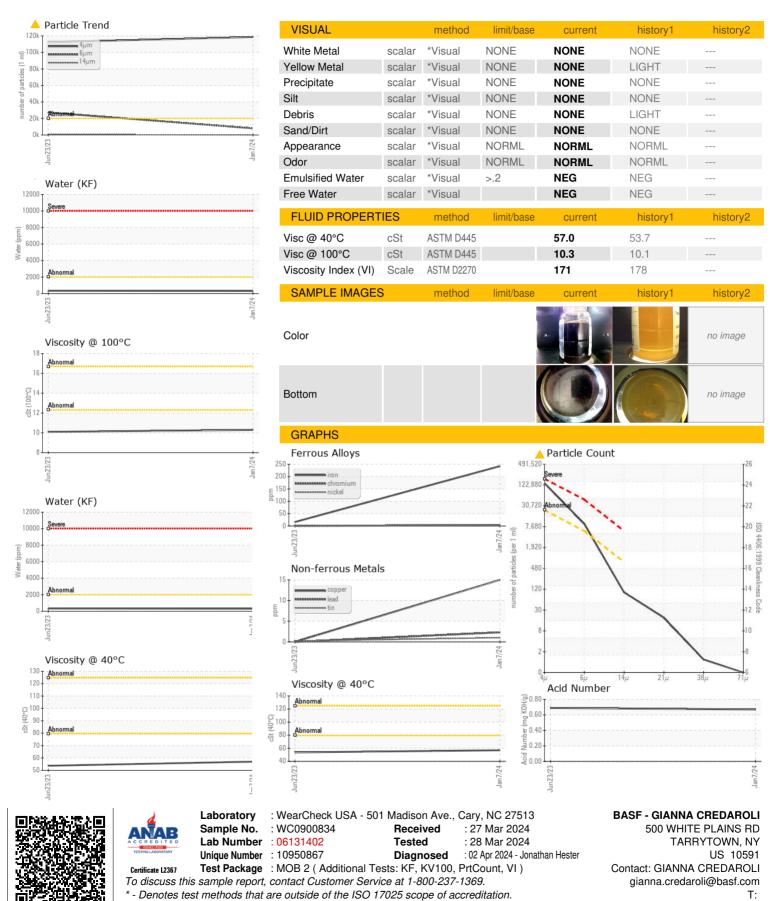
mg KOH/g ASTM D8045

0.69

0.67



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

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