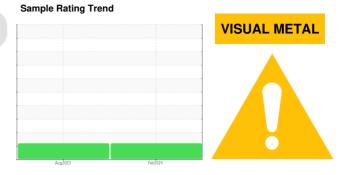


# **OIL ANALYSIS REPORT**

# DAYTON FREIGHT **DAYTON FREIGHT 423809**

**Rear Differential** 

{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 metal particles present in this sample.

### Wear

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

There is no indication of any contamination in the oil.

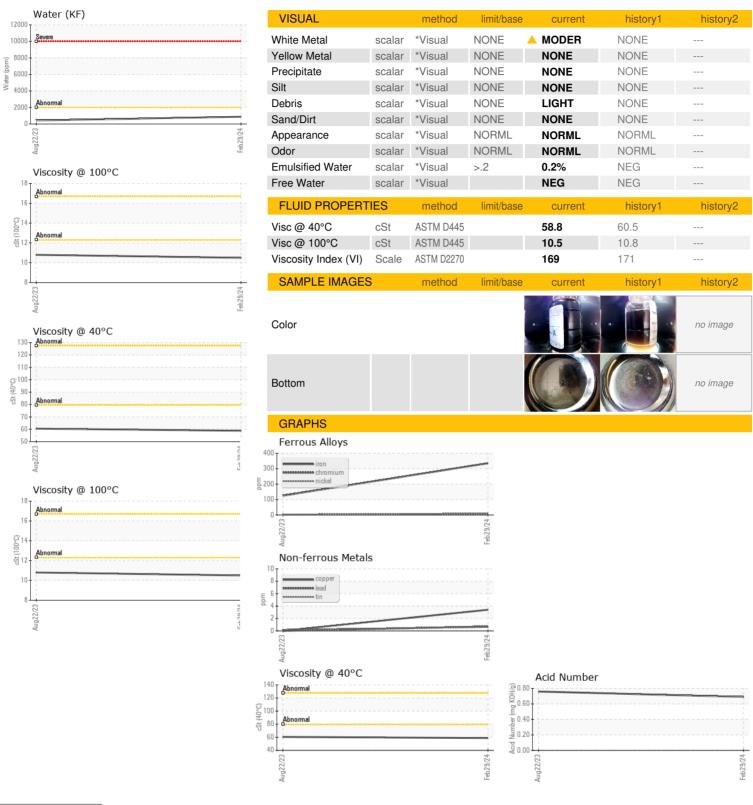
#### Fluid Condition

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

CAMPLE INCORA	AATIONI		11 11 11		111	1
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900801	WC0853841	
Sample Date		Client Info		29 Feb 2024	22 Aug 2023	
Machine Age	mls	Client Info		123769	17466	
Oil Age	mls	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	335	125	
Chromium	ppm	ASTM D5185m	>10	5	2	
Nickel	ppm	ASTM D5185m	>10	10	3	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	2	0	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m	>100	3	0	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		127	131	
Barium	ppm	ASTM D5185m		<1	0	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		14	11	
Magnesium	ppm	ASTM D5185m		164	157	
Calcium	ppm	ASTM D5185m		30	12	
Phosphorus	ppm	ASTM D5185m		1778	1651	
Zinc	ppm	ASTM D5185m		11	4	
Sulfur	ppm	ASTM D5185m		28412	28433	
CONTAMINANTS	<b>;</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	40	30	
Sodium	ppm	ASTM D5185m	210	5	3	
Potassium	ppm	ASTM D5185m	>20	2	<1	
Water	%	ASTM D6304		0.088	0.042	
ppm Water	ppm	ASTM D6304	>2000	880	429.0	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000		▲ 141890	
Particles >6µm		ASTM D7647	>5000		▲ 48381	
Particles >14µm		ASTM D7647	>640		224	
Particles >21µm		ASTM D7647	>160		12	
Particles >38µm		ASTM D7647	>40		0	
Particles >71µm		ASTM D7647	>10		0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		△ 24/23/15	
FLUID DEGRADA	TION	. ,				
		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.69	0.76	



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0900801 Lab Number : 06148061

Unique Number: 10978139

Diagnosed

: 17 Apr 2024 - Jonathan Hester Test Package : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received

**Tested** 

: 12 Apr 2024

: 17 Apr 2024

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

**BASF - GIANNA CREDAROLI** 

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Contact: GIANNA CREDAROLI gianna.credaroli@basf.com

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