

## **OIL ANALYSIS REPORT**

### Area **DAYTON FREIGHT DAYTON FREIGHT 423809**

**Front Differential** Fluid

{not provided} (--- GAL)

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of silt (particulates < 6 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.

						100
		-				
			Aug2023	Feb2024		
			AUG2U23	H8DZUZ4		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900802	WC0853840	
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				ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	135	110	
Chromium	ppm	ASTM D5185m	>10	2	2	
Nickel	ppm	ASTM D5185m	>10	4	1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m		2	0	
Lead	ppm	ASTM D5185m	>25	3	1	
Copper	ppm	ASTM D5185m	>100	29	19	
Tin	ppm	ASTM D5185m	>10	3	2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		111	112	
Barium	ppm	ASTM D5185m		2	1	
Molybdenum	ppm	ASTM D5185m		<1	0	
Manganese	ppm	ASTM D5185m		8	8	
Magnesium	ppm	ASTM D5185m		173	170	
Calcium	ppm	ASTM D5185m		13	10	
Phosphorus	ppm	ASTM D5185m		1831	1663	
Zinc	ppm	ASTM D5185m		6	3	
Sulfur	ppm	ASTM D5185m		28734	28280	
CONTAMINANTS	S	method	limit/base	current	history1	history2
					o =	

Sample Rating Trend

ISO

CONTAMINAN	15	method	limit/base	current	nistory i	nistory2
Silicon	ppm	ASTM D5185m	>75	28	25	
Sodium	ppm	ASTM D5185m		3	3	
Potassium	ppm	ASTM D5185m	>20	1	0	
Water	%	ASTM D6304	>.2	0.019	<b>0.209</b>	
ppm Water	ppm	ASTM D6304	>2000	199	▲ 2090	

FLUID CLEANLINESS					
Particles >4µm	ASTM D7647	>20000	9 31560	▲ 103335	
Particles >6µm	ASTM D7647	>5000	687	67678	
Particles >14µm	ASTM D7647	>640	38	40	
Particles >21µm	ASTM D7647	>160	22	7	
Particles >38µm	ASTM D7647	>40	4	0	
Particles >71µm	ASTM D7647	>10	0	0	
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>22/17/12</b>	▲ 24/20/12	
FLUID DEGRADATION	method	limit/base	current	history1	history2

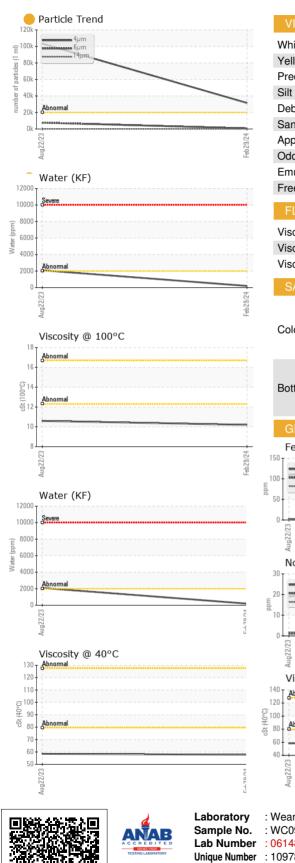
Acid Number (AN)

mg KOH/g ASTM D8045

Contact/Location: GIANNA CREDAROLI - BASTARHD



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VIOLAT						
VISUAL		method	limit/base	current	history1	histor
White Meta			NONE	NONE	NONE	
Yellow Met		*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	LIGHT	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	e scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified	Water scalar	*Visual	>.2	NEG	0.2%	
Free Wate	r scalar	*Visual		NEG	NEG	
FI LID P	ROPERTIES	method	limit/base	current	history1	histo
			inninibaddo			
Visc @ 40°		ASTM D445		57.7	58.5	
Visc @ 100		ASTM D445		10.2	10.6	
Viscosity Ir	ndex (VI) Scale	ASTM D2270		166	173	
SAMPLE	E IMAGES	method	limit/base	current	history1	histo
Color					5. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	o no ima
Bottom						no ima
GRAPHS	s					
Ferrous A			491,520-	Particle Count	:	
Ferrous A	Alloys			Particle Count		
Ferrous A			122,880	Severe		
Ferrous A	Alloys			Severe		
Ferrous A	Alloys		122,880	Severe		
Ferrous A	Alloys		122,880	Severe		
Ferrous /	Alloys		122,880	Severe		
Ferrous /	Alloys		122,880	Severe		
Ferrous /	Alloys		122,880	Severe		
Ferrous /	Alloys		122,880	Severe		
Non-ferro	Alloys		122,880 30,720 7,680 7,680 7,680 7,680 7,680 1,920 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Severe		
Ferrous /	Alloys		122,880 30,720 The tag 7,680 FUC 20 The tag 1,920 The tag	Severe		
Ferrous /	Alloys		122,880 30,720	Severe		
Non-ferro	Alloys		122,880 30,720 Te 7,680- 200 420,794 1,920- 480- 120- 120- 30 480- 480- 120- 30 8- 480- 120- 30 480- 480- 120- 30 480- 480- 480- 480- 480- 480- 480- 480	Severe		
Ferrous /	Alloys		122,880 30,720 Te 7,680- 200 420,794 1,920- 480- 120- 120- 30 480- 480- 120- 30 8- 480- 120- 30 480- 480- 120- 30 480- 480- 480- 480- 480- 480- 480- 480	Abnormal	14μ 21μ	36μ
Ferrous /	Alloys		122,880 30,720 T (560 1,920	Severe		38μ
Ferrous /	Alloys		122,880 30,720 T (560 1,920	Abnormal		38µ
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Ferrous /	Alloys		122,880 30,720 T (560 1,920	Abnormal		38μ

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)

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Certificate 12367

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