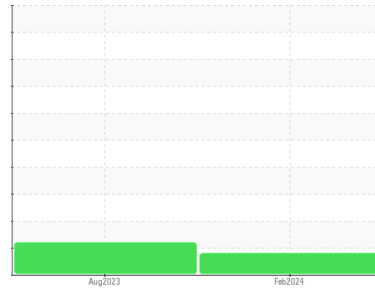




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
DAYTON FREIGHT
 Machine Id
DAYTON FREIGHT 423810
 Component
Front Differential
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

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. Please note that this is a corrected copy for laboratory data update for elemental data.

Wear

All component wear rates are normal.

Contamination

There is a high 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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0900800	WC0853860	---
Sample Date	Client Info		23 Feb 2024	30 Aug 2023	---
Machine Age	mls	Client Info	101509	29885	---
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	143	137	---
Chromium	ppm	ASTM D5185m >10	2	2	---
Nickel	ppm	ASTM D5185m >10	2	2	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	1	<1	---
Lead	ppm	ASTM D5185m >25	2	<1	---
Copper	ppm	ASTM D5185m >100	13	10	---
Tin	ppm	ASTM D5185m >10	1	<1	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	94	111	---
Barium	ppm	ASTM D5185m	2	0	---
Molybdenum	ppm	ASTM D5185m	0	0	---
Manganese	ppm	ASTM D5185m	7	7	---
Magnesium	ppm	ASTM D5185m	168	178	---
Calcium	ppm	ASTM D5185m	10	6	---
Phosphorus	ppm	ASTM D5185m	1746	1619	---
Zinc	ppm	ASTM D5185m	0	8	---
Sulfur	ppm	ASTM D5185m	27366	27900	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	24	26	---
Sodium	ppm	ASTM D5185m	5	4	---
Potassium	ppm	ASTM D5185m >20	2	2	---
Water	%	ASTM D6304 >.2	0.021	0.082	---
ppm Water	ppm	ASTM D6304 >2000	219	828.2	---

FLUID CLEANLINESS

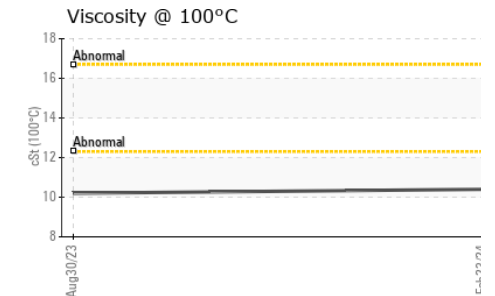
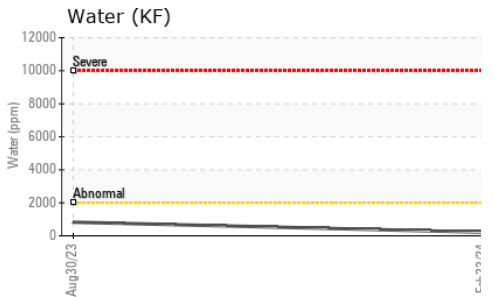
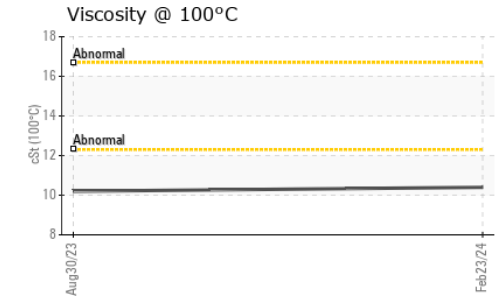
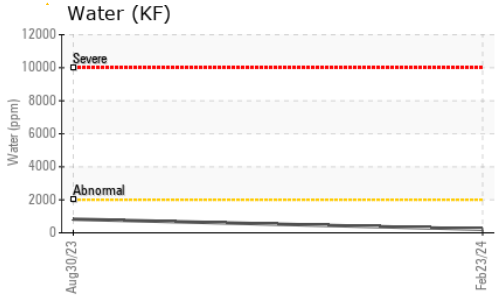
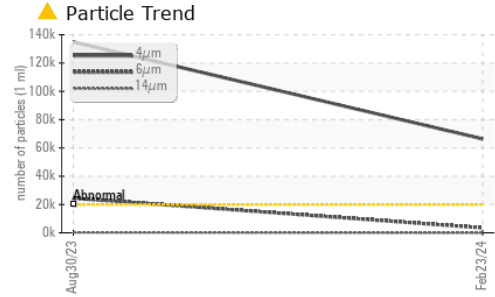
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 66337	▲ 134905	---
Particles >6µm	ASTM D7647	>5000	▲ 3512	▲ 24456	---
Particles >14µm	ASTM D7647	>640	35	287	---
Particles >21µm	ASTM D7647	>160	8	59	---
Particles >38µm	ASTM D7647	>40	1	7	---
Particles >71µm	ASTM D7647	>10	0	1	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 23/19/12	▲ 24/22/15	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.69	0.70	---



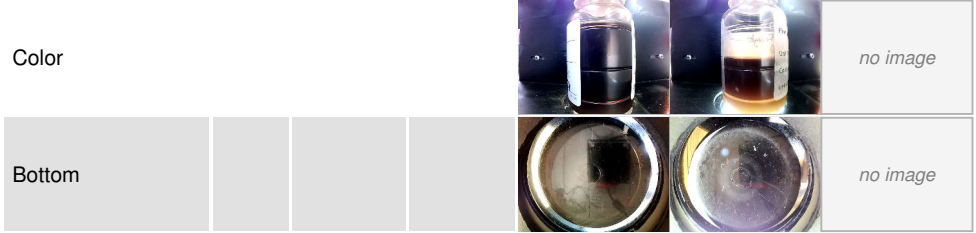
OIL ANALYSIS REPORT



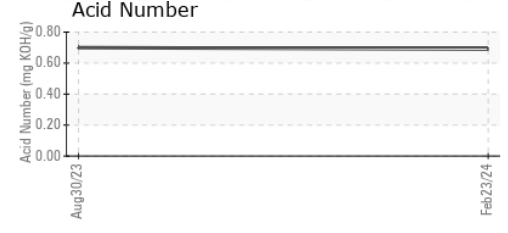
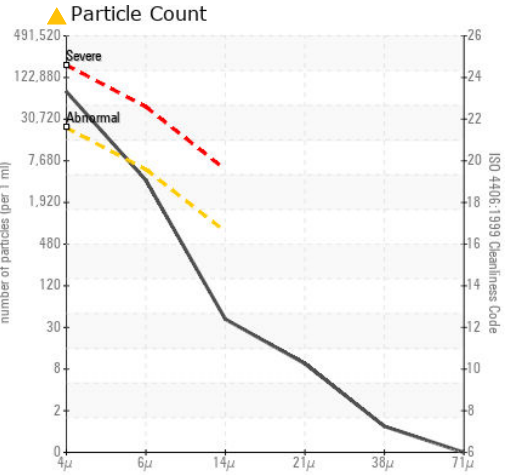
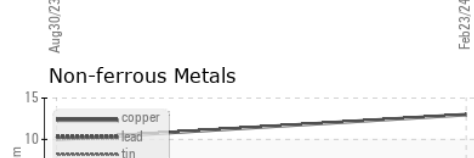
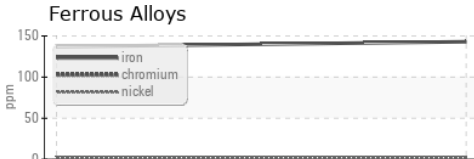
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	
Yellow Metal	scalar	*Visual	NONE	NONE	---	
Precipitate	scalar	*Visual	NONE	NONE	---	
Silt	scalar	*Visual	NONE	LIGHT	---	
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	
Appearance	scalar	*Visual	NORML	NORML	---	
Odor	scalar	*Visual	NORML	NORML	---	
Emulsified Water	scalar	*Visual	>.2	NEG	---	
Free Water	scalar	*Visual		NEG	---	

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	56.9	57.3	---
Visc @ 100°C	cSt	ASTM D445	10.4	10.2	---
Viscosity Index (VI)	Scale	ASTM D2270	174	167	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900800 **Received** : 12 Apr 2024
Lab Number : 06148059 **Tested** : 18 Apr 2024
Unique Number : 10978137 **Diagnosed** : 18 Apr 2024 - Doug Bogart
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
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 gianna.credaroli@basf.com

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)