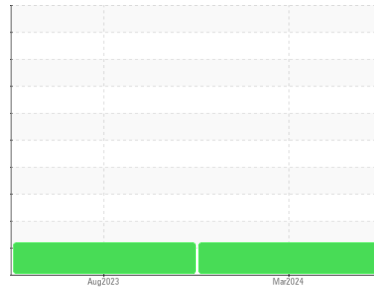




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area

DAYTON FREIGHT

Machine Id

DAYTON FREIGHT 423807

Component

Rear 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.

Wear

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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0900803	WC0853845	---
Sample Date	Client Info		20 Mar 2024	17 Aug 2023	---
Machine Age	mls	Client Info	103791	25287	---
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	415	187	---
Chromium	ppm	ASTM D5185m >10	6	3	---
Nickel	ppm	ASTM D5185m >10	10	4	---
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	2	0	---
Tin	ppm	ASTM D5185m >10	<1	0	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	126	126	---
Barium	ppm	ASTM D5185m	<1	<1	---
Molybdenum	ppm	ASTM D5185m	<1	0	---
Manganese	ppm	ASTM D5185m	14	10	---
Magnesium	ppm	ASTM D5185m	155	158	---
Calcium	ppm	ASTM D5185m	19	14	---
Phosphorus	ppm	ASTM D5185m	1796	1660	---
Zinc	ppm	ASTM D5185m	13	7	---
Sulfur	ppm	ASTM D5185m	27745	28449	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	40	34	---
Sodium	ppm	ASTM D5185m	3	3	---
Potassium	ppm	ASTM D5185m >20	2	0	---
Water	%	ASTM D6304 >.2	0.017	0.054	---
ppm Water	ppm	ASTM D6304 >2000	173	541.1	---

FLUID CLEANLINESS

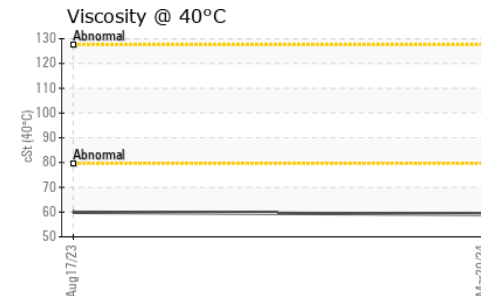
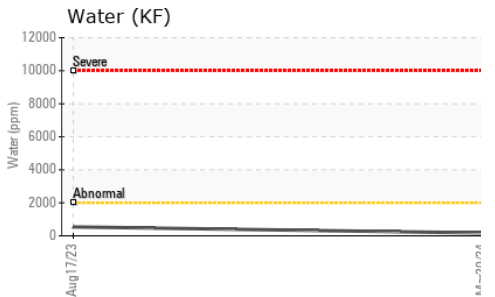
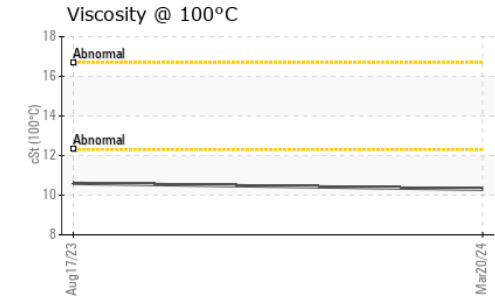
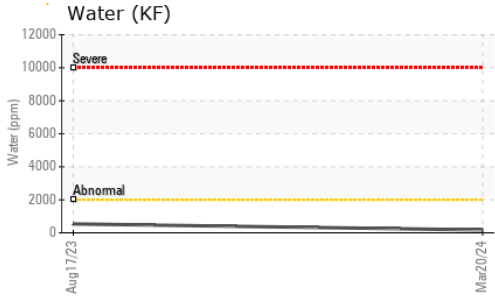
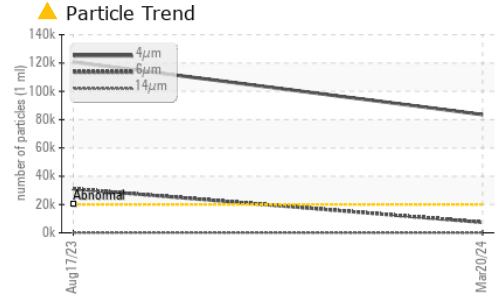
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ 83543	▲ 120747	---
Particles >6µm	ASTM D7647	>5000	● 7377	▲ 31066	---
Particles >14µm	ASTM D7647	>640	32	140	---
Particles >21µm	ASTM D7647	>160	10	19	---
Particles >38µm	ASTM D7647	>40	1	0	---
Particles >71µm	ASTM D7647	>10	0	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ 24/20/12	▲ 24/22/14	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.86	0.73	---



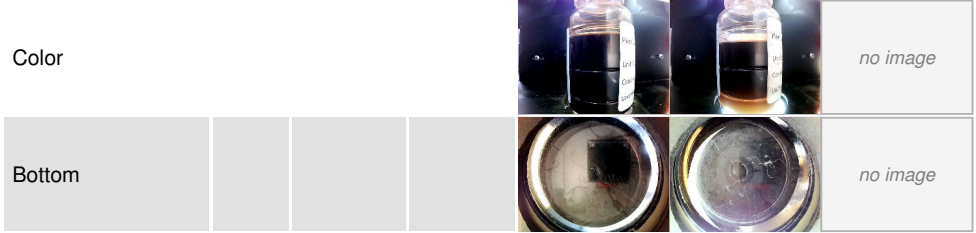
OIL ANALYSIS REPORT



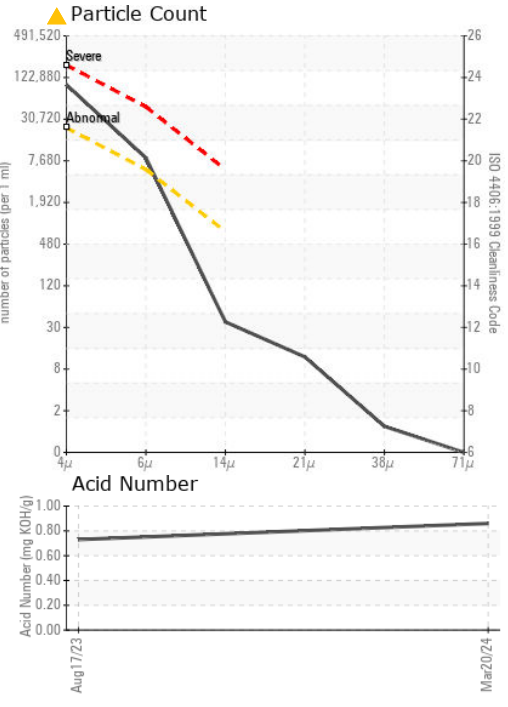
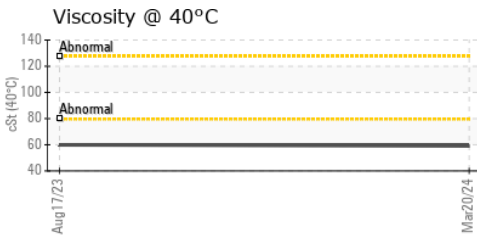
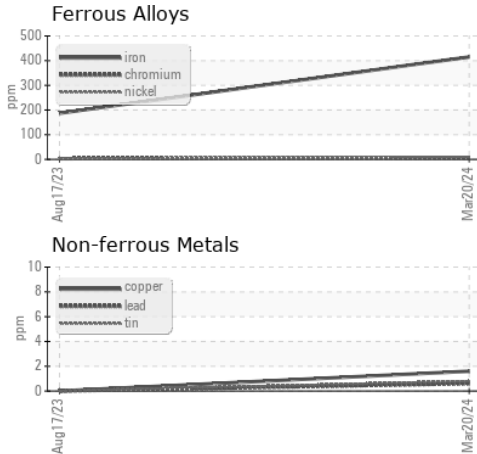
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	59.1	59.9	---
Visc @ 100°C	cSt	ASTM D445	10.3	10.6	---
Viscosity Index (VI)	Scale	ASTM D2270	163	168	---

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900803 **Received** : 12 Apr 2024
Lab Number : 06148063 **Tested** : 15 Apr 2024
Unique Number : 10978141 **Diagnosed** : 17 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
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 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)