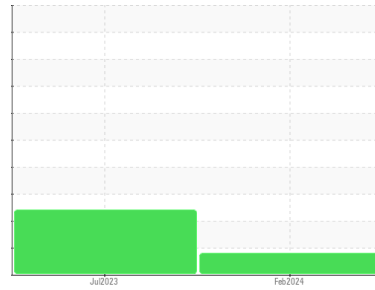




OIL ANALYSIS REPORT

Sample Rating Trend



SEDIMENT



Area
DICK LAVY
 Machine Id
DICK LAVY 4956
 Component
Front Differential
 Fluid
{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 a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

▲ Contamination

There is a moderate amount of visible silt present in the sample.

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		WC0900810	WC0843212	---
Sample Date	Client Info		09 Feb 2024	28 Jul 2023	---
Machine Age	mls	Client Info	56758	456	---
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	164	42	---
Chromium	ppm	ASTM D5185m	>10	2	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	2	3	---
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		174	186	---
Barium	ppm	ASTM D5185m		2	<1	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		12	10	---
Magnesium	ppm	ASTM D5185m		2	<1	---
Calcium	ppm	ASTM D5185m		22	13	---
Phosphorus	ppm	ASTM D5185m		1207	1095	---
Zinc	ppm	ASTM D5185m		21	2	---
Sulfur	ppm	ASTM D5185m		28870	29626	---

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	20	15	---
Sodium	ppm	ASTM D5185m		6	3	---
Potassium	ppm	ASTM D5185m	>20	3	1	---
Water	%	ASTM D6304	>.2	0.032	0.068	---
ppm Water	ppm	ASTM D6304	>2000	328	685.2	---

FLUID CLEANLINESS

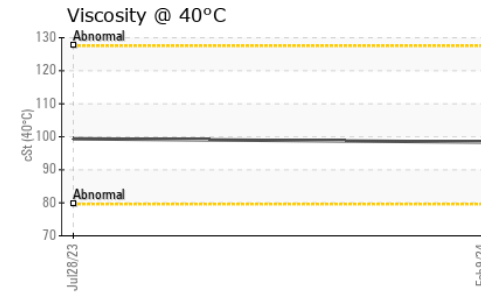
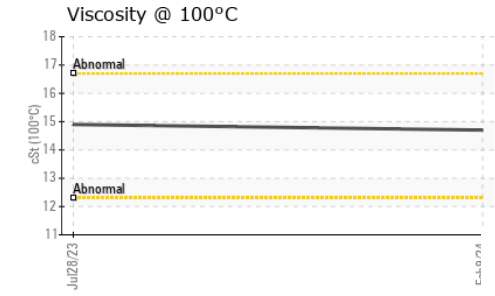
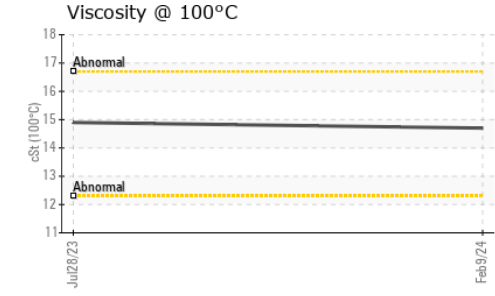
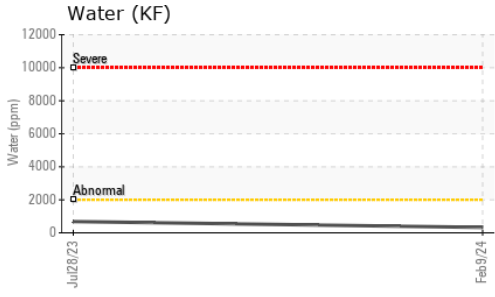
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	▲ 202426	---
Particles >6µm	ASTM D7647	>5000	---	▲ 62913	---
Particles >14µm	ASTM D7647	>640	---	623	---
Particles >21µm	ASTM D7647	>160	---	39	---
Particles >38µm	ASTM D7647	>40	---	1	---
Particles >71µm	ASTM D7647	>10	---	0	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	▲ 25/23/16	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		3.75	● 3.40	---



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	▲ MODER	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	98.4	99.4	---
Visc @ 100°C	cSt	ASTM D445	14.7	14.9	---
Viscosity Index (VI)	Scale	ASTM D2270	155	156	---

SAMPLE IMAGES

	method	limit/base	current	history1	history2
Color					
Bottom					

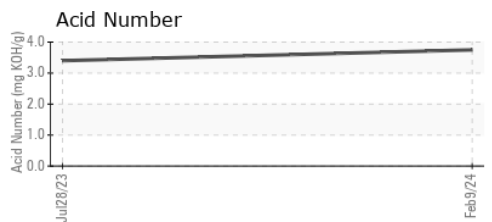
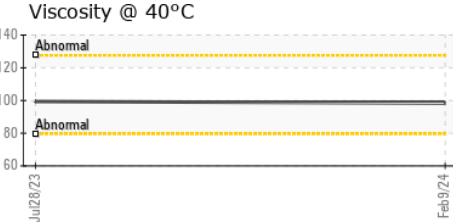
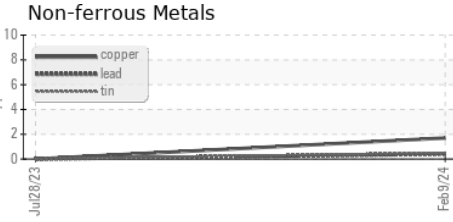
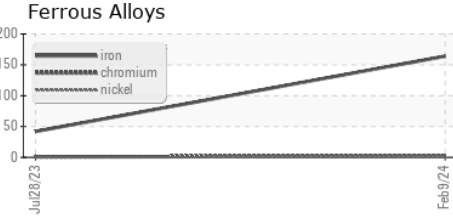
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0900810 **Received** : 12 Apr 2024
Lab Number : 06148058 **Tested** : 17 Apr 2024
Unique Number : 10978136 **Diagnosed** : 17 Apr 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, KV100, PrtCount, VI)

BASF - GIANNA CREDAROLI
 500 WHITE PLAINS RD
 TARRYTOWN, NY
 US 10591
 Contact: GIANNA CREDAROLI
 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)