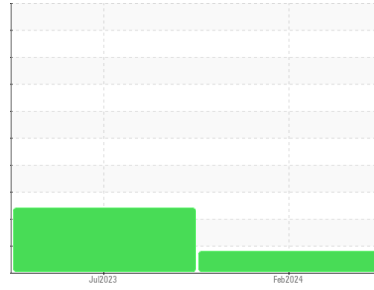




# OIL ANALYSIS REPORT

## Sample Rating Trend



## SEDIMENT



Area  
**DICK LAVY**  
 Machine Id  
**DICK LAVY 4949**  
 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		<b>WC0900811</b>	WC0843205	---
Sample Date	Client Info		<b>15 Feb 2024</b>	31 Jul 2023	---
Machine Age	mls	Client Info	<b>56404</b>	6280	---
Oil Age	mls	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>500	<b>137</b>	77	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	3	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>1</b>	0	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>172</b>	185	---
Barium	ppm	ASTM D5185m		<b>2</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>13</b>	13	---
Magnesium	ppm	ASTM D5185m		<b>5</b>	<1	---
Calcium	ppm	ASTM D5185m		<b>24</b>	15	---
Phosphorus	ppm	ASTM D5185m		<b>1204</b>	1103	---
Zinc	ppm	ASTM D5185m		<b>22</b>	5	---
Sulfur	ppm	ASTM D5185m		<b>28862</b>	29427	---

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>75	<b>17</b>	15	---
Sodium	ppm	ASTM D5185m		<b>5</b>	4	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	1	---
Water	%	ASTM D6304	>.2	<b>0.034</b>	0.063	---
ppm Water	ppm	ASTM D6304	>2000	<b>347</b>	636.7	---

### FLUID CLEANLINESS

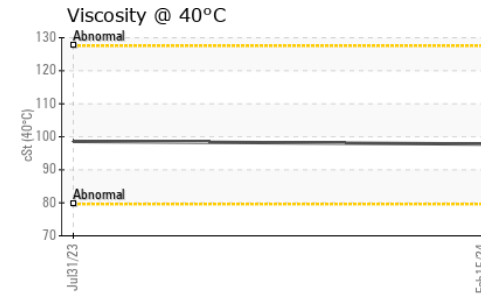
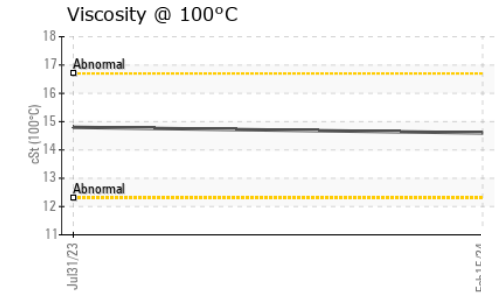
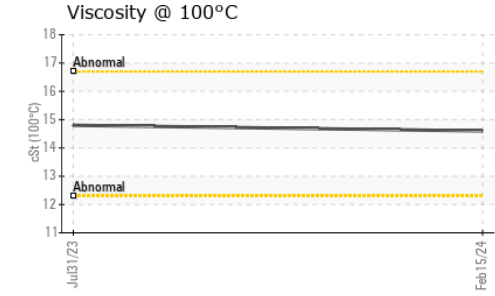
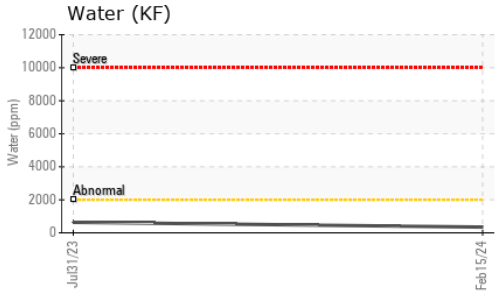
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	▲ 151621	---
Particles >6µm	ASTM D7647	>5000	---	▲ 40513	---
Particles >14µm	ASTM D7647	>640	---	79	---
Particles >21µm	ASTM D7647	>160	---	14	---
Particles >38µm	ASTM D7647	>40	---	3	---
Particles >71µm	ASTM D7647	>10	---	1	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	▲ 24/23/13	---

### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>3.59</b>	● 3.38	---



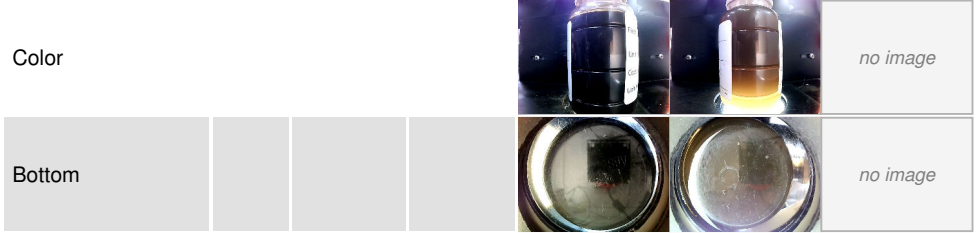
# OIL ANALYSIS REPORT



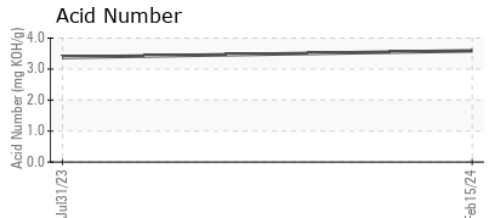
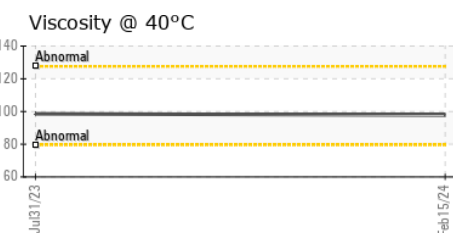
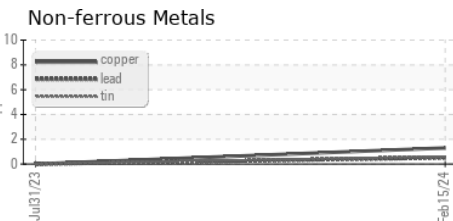
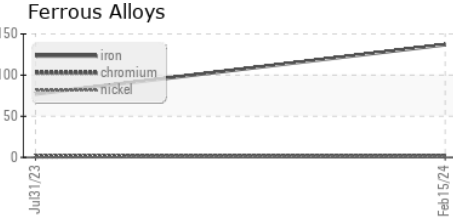
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	▲ MODER	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	97.8	98.6	---
Visc @ 100°C	cSt	ASTM D445	14.6	14.8	---
Viscosity Index (VI)	Scale	ASTM D2270	155	156	---

### SAMPLE IMAGES



### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0900811      **Received** : 12 Apr 2024  
**Lab Number** : 06148057      **Tested** : 17 Apr 2024  
**Unique Number** : 10978135      **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)

T:  
F: