

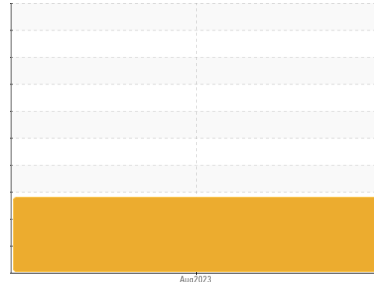


# OIL ANALYSIS REPORT

Sample Rating Trend

DEGRADATION

Area  
**DICK LAVY**  
 Machine Id  
**DICK LAVY 4955**  
 Component  
**Front Differential**  
 Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### Recommendation

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

The AN level is at the top-end of the recommended limit.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0843210</b>	---	---
Sample Date	Client Info	<b>01 Aug 2023</b>	---	---
Machine Age	mls Client Info	<b>460</b>	---	---
Oil Age	mls Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>500	<b>35</b>	---	---
Chromium ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel ppm ASTM D5185m	>10	<b>0</b>	---	---
Titanium ppm ASTM D5185m		<b>0</b>	---	---
Silver ppm ASTM D5185m		<b>0</b>	---	---
Aluminum ppm ASTM D5185m	>25	<b>3</b>	---	---
Lead ppm ASTM D5185m	>25	<b>0</b>	---	---
Copper ppm ASTM D5185m	>100	<b>&lt;1</b>	---	---
Tin ppm ASTM D5185m	>10	<b>0</b>	---	---
Vanadium ppm ASTM D5185m		<b>0</b>	---	---
Cadmium ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>192</b>	---	---
Barium ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum ppm ASTM D5185m		<b>0</b>	---	---
Manganese ppm ASTM D5185m		<b>7</b>	---	---
Magnesium ppm ASTM D5185m		<b>2</b>	---	---
Calcium ppm ASTM D5185m		<b>14</b>	---	---
Phosphorus ppm ASTM D5185m		<b>1106</b>	---	---
Zinc ppm ASTM D5185m		<b>0</b>	---	---
Sulfur ppm ASTM D5185m		<b>29570</b>	---	---

## CONTAMINANTS

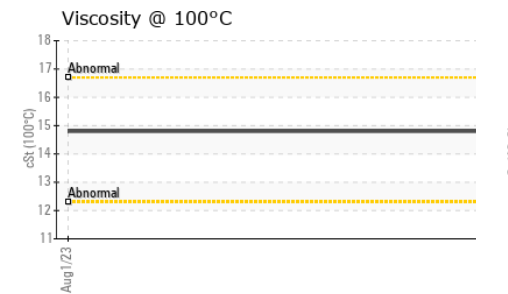
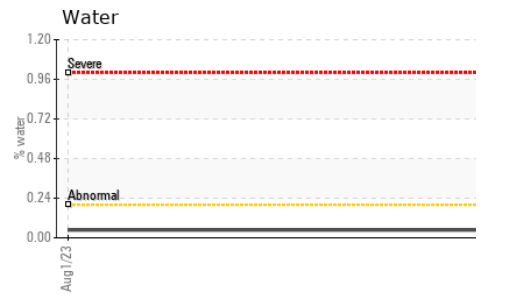
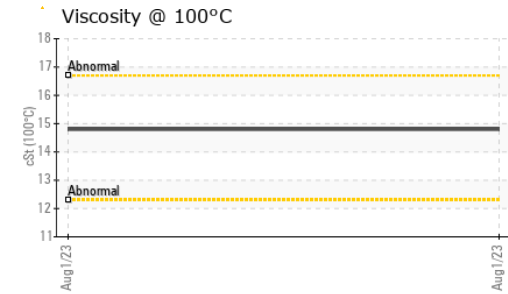
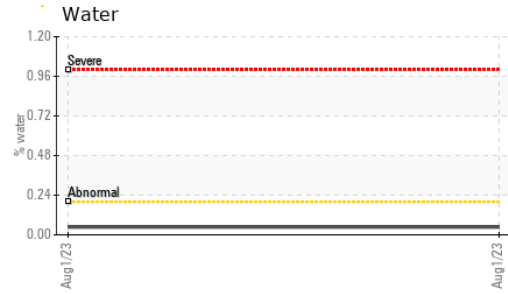
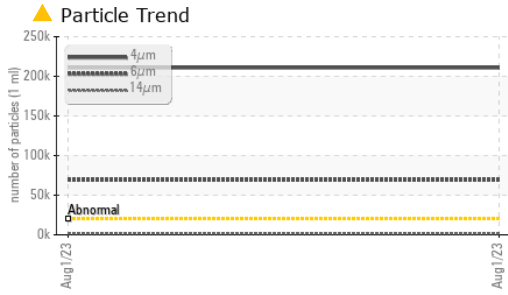
method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>75	<b>20</b>	---	---
Sodium ppm ASTM D5185m		<b>3</b>	---	---
Potassium ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water % ASTM D6304	>.2	<b>0.047</b>	---	---
ppm Water ppm ASTM D6304	>2000	<b>471.6</b>	---	---

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>20000	<b>▲ 210826</b>	---	---
Particles >6µm ASTM D7647	>5000	<b>▲ 69123</b>	---	---
Particles >14µm ASTM D7647	>640	<b>▲ 1612</b>	---	---
Particles >21µm ASTM D7647	>160	<b>154</b>	---	---
Particles >38µm ASTM D7647	>40	<b>4</b>	---	---
Particles >71µm ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness ISO 4406 (c)	>21/19/16	<b>▲ 25/23/18</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045		<b>▲ 3.45</b>	---	---



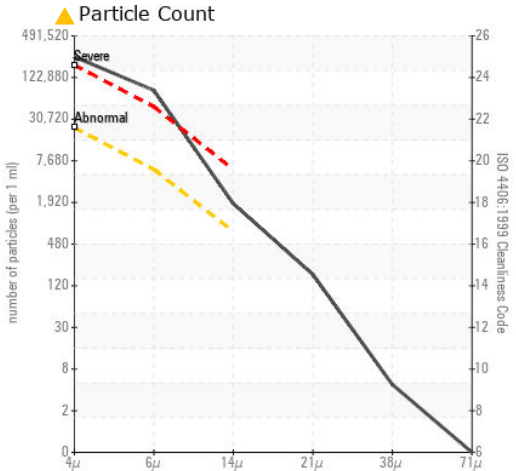
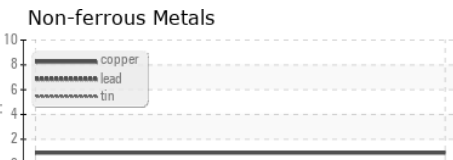
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	98.7	---	---
Visc @ 100°C	cSt	ASTM D445	14.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270	156	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0843210 **Received** : 29 Aug 2023  
**Lab Number** : 05937861 **Diagnosed** : 14 Sep 2023  
**Unique Number** : 10628473 **Diagnostician** : Doug Bogart  
**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)