



# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**DICK LAVY [BEFORE]**  
 Machine Id  
**DICK LAVY 4967**  
 Component  
**Front Differential**  
 Fluid  
**NOT GIVEN (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. (before)

### 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		<b>WC0853960</b>	---	---
Sample Date	Client Info		<b>11 Oct 2023</b>	---	---
Machine Age	mls Client Info		<b>567</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>20</b>	---	---
Chromium	ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m	>10	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m		<b>0</b>	---	---
Silver	ppm ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm ASTM D5185m	>25	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m	>25	<b>0</b>	---	---
Copper	ppm ASTM D5185m	>100	<b>0</b>	---	---
Tin	ppm ASTM D5185m	>10	<b>&lt;1</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>161</b>	---	---
Barium	ppm ASTM D5185m		<b>1</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>0</b>	---	---
Manganese	ppm ASTM D5185m		<b>6</b>	---	---
Magnesium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Calcium	ppm ASTM D5185m		<b>18</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>1077</b>	---	---
Zinc	ppm ASTM D5185m		<b>11</b>	---	---
Sulfur	ppm ASTM D5185m		<b>24499</b>	---	---

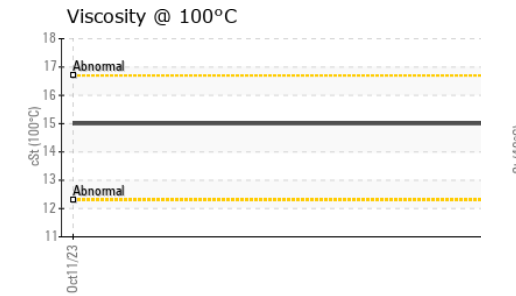
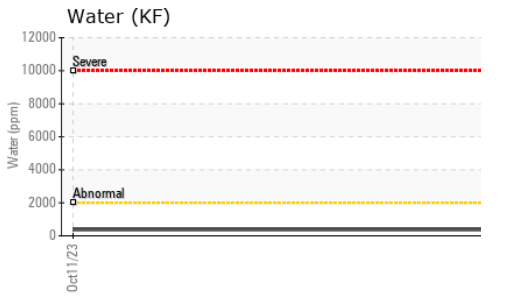
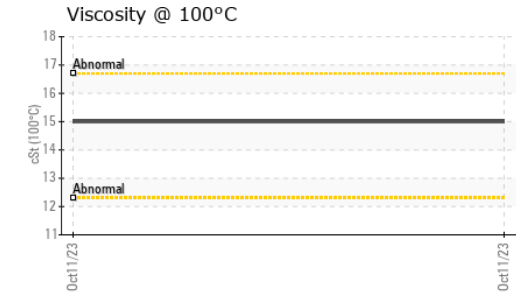
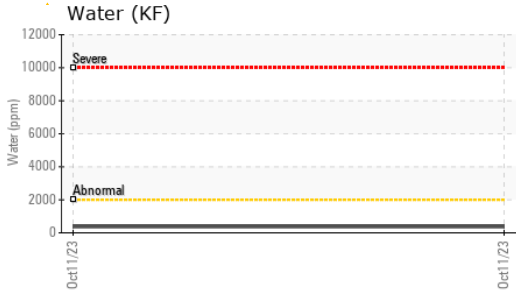
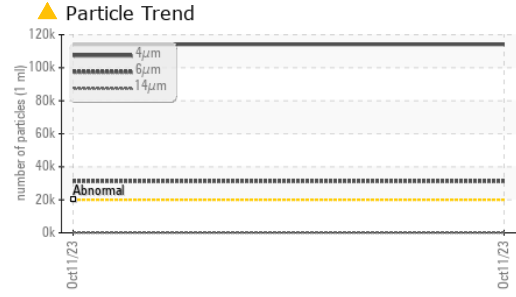
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>75	<b>14</b>	---	---
Sodium	ppm ASTM D5185m		<b>1</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water	% ASTM D6304	>.2	<b>0.037</b>	---	---
ppm Water	ppm ASTM D6304	>2000	<b>371.9</b>	---	---

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ <b>114134</b>	---	---
Particles >6µm	ASTM D7647	>5000	▲ <b>31294</b>	---	---
Particles >14µm	ASTM D7647	>640	<b>188</b>	---	---
Particles >21µm	ASTM D7647	>160	<b>10</b>	---	---
Particles >38µm	ASTM D7647	>40	<b>3</b>	---	---
Particles >71µm	ASTM D7647	>10	<b>2</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ <b>24/22/15</b>	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045		<b>3.29</b>	---	---



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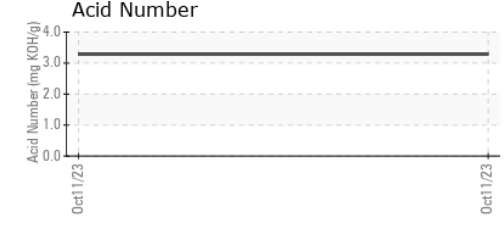
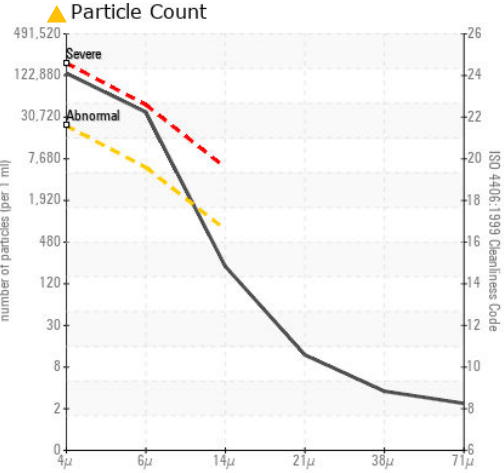
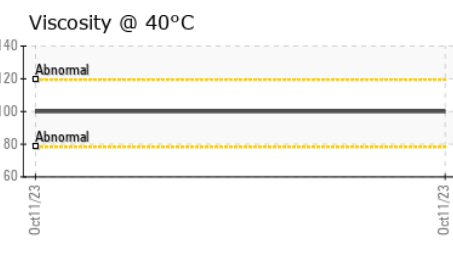
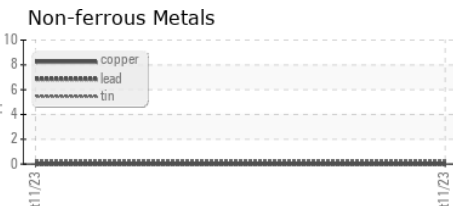
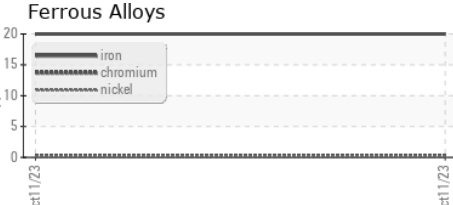
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
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	100	---	---
Visc @ 100°C	cSt	ASTM D445	15.0	---	---
Viscosity Index (VI)	Scale	ASTM D2270	157	---	---

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.** : WC0853960 **Received** : 20 Nov 2023  
**Lab Number** : 06013277 **Diagnosed** : 24 Nov 2023  
**Unique Number** : 10752421 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

**BASF - GIANNA CREDAROLI**  
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 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)