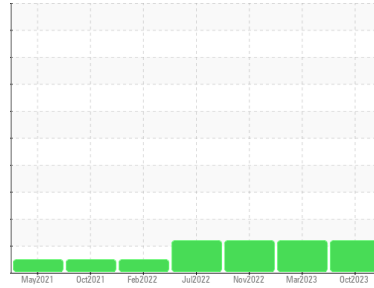




# OIL ANALYSIS REPORT

Sample Rating Trend

ISO



Area  
**DICK LAVY**  
Machine Id  
**DICK LAVY 4833**  
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.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the fluid.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0853912</b>	WC0815590	WC0765825
Sample Date	Client Info		<b>02 Oct 2023</b>	28 Mar 2023	19 Nov 2022
Machine Age	mls	Client Info	<b>358106</b>	299474	250146
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>203</b>	197	196
Chromium	ppm	ASTM D5185m >10	<b>1</b>	1	1
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>1</b>	2	2
Lead	ppm	ASTM D5185m >25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >100	<b>1</b>	1	1
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>82</b>	85	90
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m	<b>10</b>	10	10
Magnesium	ppm	ASTM D5185m	<b>147</b>	147	149
Calcium	ppm	ASTM D5185m	<b>14</b>	6	7
Phosphorus	ppm	ASTM D5185m	<b>1572</b>	1611	1555
Zinc	ppm	ASTM D5185m	<b>0</b>	0	6
Sulfur	ppm	ASTM D5185m	<b>21400</b>	28052	26776

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>26</b>	23	23
Sodium	ppm	ASTM D5185m	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>16</b>	17	18
Water	%	ASTM D6304 >.2	<b>0.029</b>	0.041	0.028
ppm Water	ppm	ASTM D6304 >2000	<b>299.9</b>	411.2	286.1

## FLUID CLEANLINESS

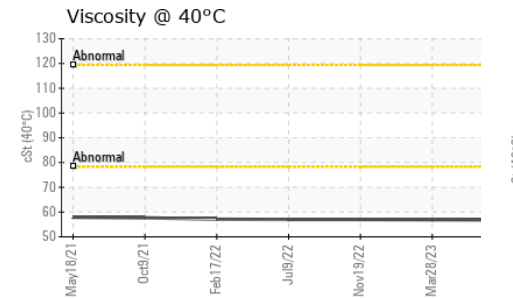
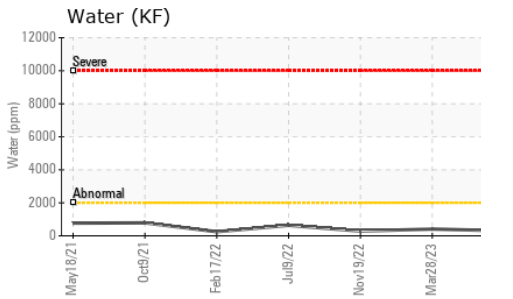
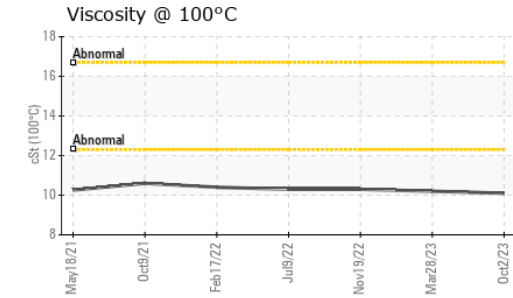
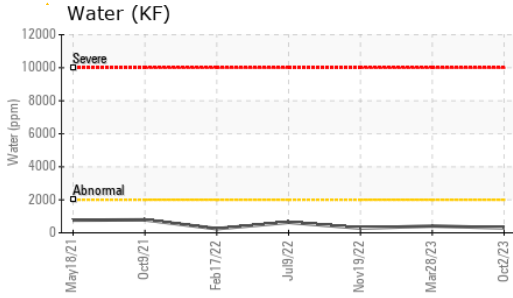
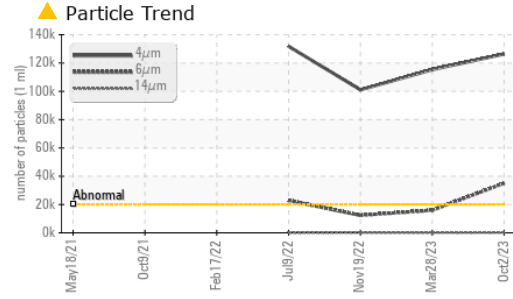
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	▲ <b>126354</b>	▲ 115344	▲ 101081
Particles >6µm	ASTM D7647	>5000	▲ <b>35011</b>	▲ 15927	▲ 12339
Particles >14µm	ASTM D7647	>640	<b>102</b>	65	142
Particles >21µm	ASTM D7647	>160	<b>19</b>	7	37
Particles >38µm	ASTM D7647	>40	<b>2</b>	0	3
Particles >71µm	ASTM D7647	>10	<b>1</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	▲ <b>24/22/14</b>	▲ 24/21/13	▲ 24/21/14

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.82</b>	0.75	1.10



# OIL ANALYSIS REPORT



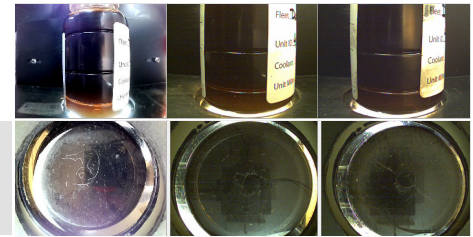
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	56.8	56.9	57.0
Visc @ 100°C	cSt	ASTM D445	10.1	10.2	10.3
Viscosity Index (VI)	Scale	ASTM D2270	166	169	171

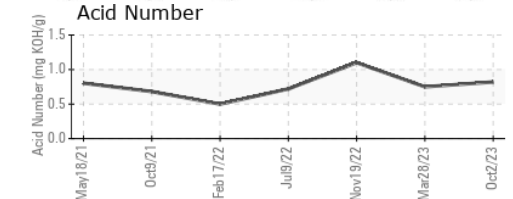
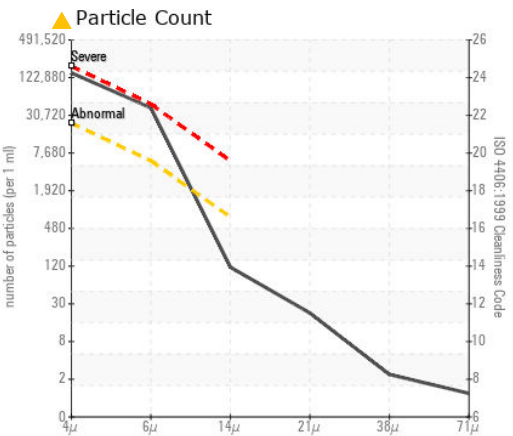
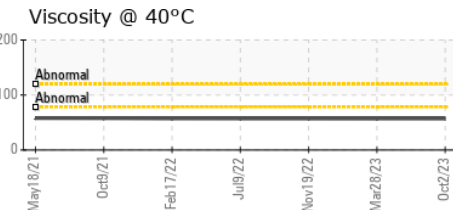
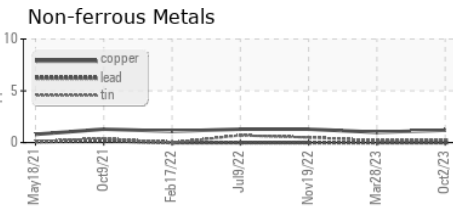
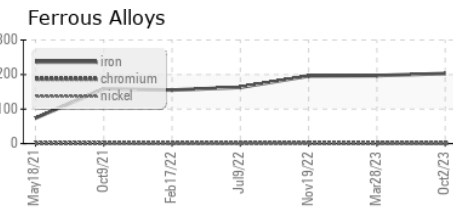
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom



## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : WC0853912  
 Lab Number : 05978918  
 Unique Number : 10696213  
 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: