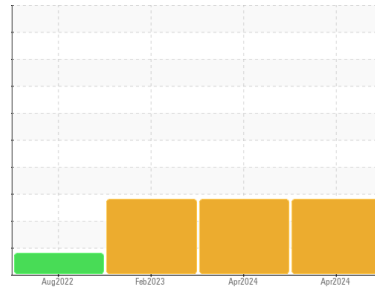




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Area

{UNASSIGNED}

Machine Id

**MCDGPB-1 (S/N 21-306)**

Component

**Hydraulic System**

Fluid

**LUBRIPLATE SFGO ULTRA 46 (165 GAL)**

## DIAGNOSIS

### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. ( Customer Sample Comment: After kidney filtration. Low usage resulted in settled particulate. Completed 40 hours of mostly static filtration with 10 minute circulation every 2 hours. 30 hours of dynamic filtration was completed prior to this sample draw. )

### Wear

The copper level is abnormal. All other component wear rates are normal.

### Contamination

There is a high amount of particulates 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>WC0782794</b>	WC0782793	WC0782702
Sample Date	Client Info		<b>06 Apr 2024</b>	03 Apr 2024	07 Feb 2023
Machine Age	hrs	Client Info	<b>15671</b>	15607	5530
Oil Age	hrs	Client Info	<b>2970</b>	2938	986
Oil Changed	Client Info		<b>Filtered</b>	Not Changd	Not Changd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.05	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>0</b>	0	<1
Chromium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >20	<b>▲ 128</b>	▲ 133	▲ 52
Tin	ppm	ASTM D5185m >20	<b>0</b>	0	0
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>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m	<b>93</b>	95	104
Phosphorus	ppm	ASTM D5185m	<b>1039</b>	1039	1044
Zinc	ppm	ASTM D5185m	<b>1150</b>	1167	1265
Sulfur	ppm	ASTM D5185m	<b>2845</b>	2813	2940

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0

## FLUID CLEANLINESS

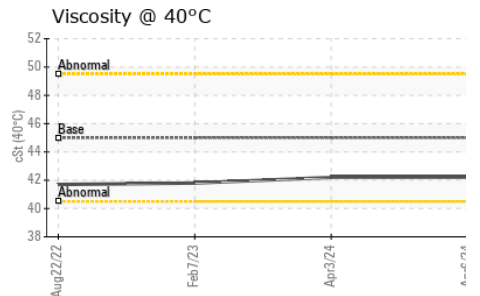
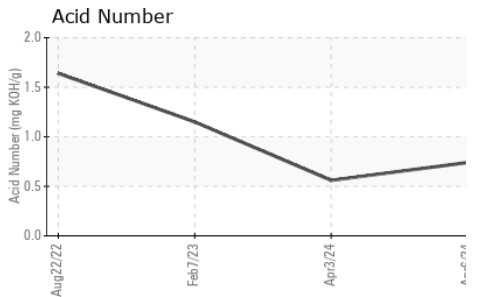
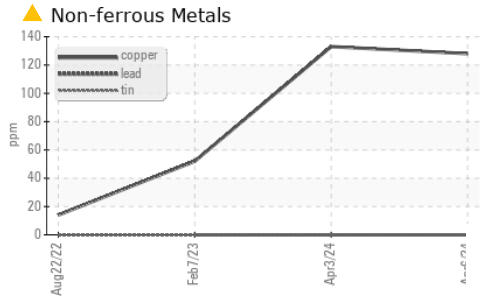
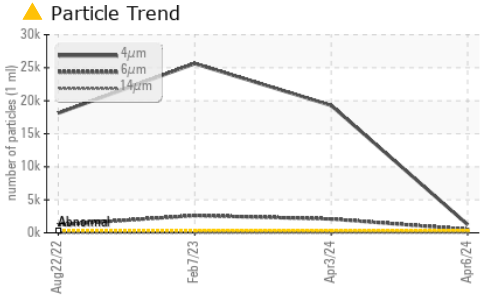
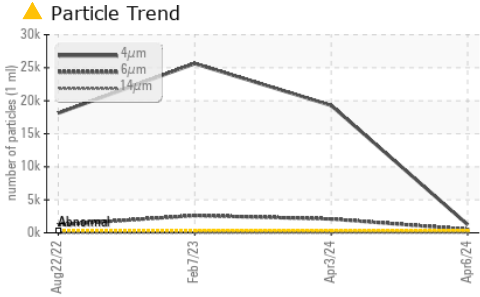
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>320	<b>▲ 1241</b>	▲ 19288	▲ 25631
Particles >6µm	ASTM D7647	>80	<b>▲ 517</b>	▲ 2095	▲ 2616
Particles >14µm	ASTM D7647	>10	<b>▲ 32</b>	▲ 49	▲ 38
Particles >21µm	ASTM D7647	>3	<b>▲ 5</b>	▲ 9	▲ 4
Particles >38µm	ASTM D7647	>3	<b>0</b>	2	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>15/13/10	<b>▲ 17/16/12</b>	▲ 21/18/13	▲ 22/19/12

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.74</b>	0.56	1.15



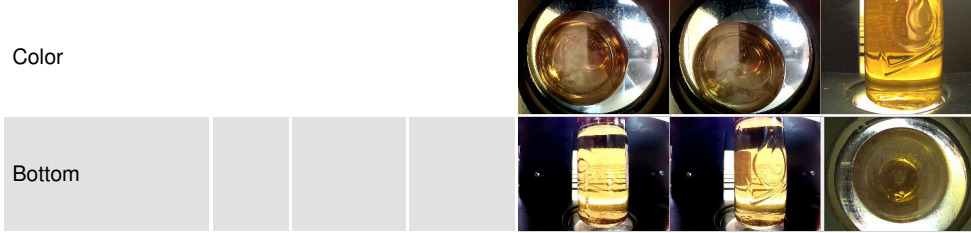
# OIL ANALYSIS REPORT



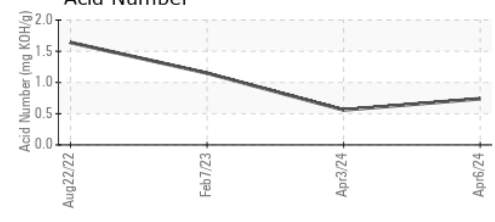
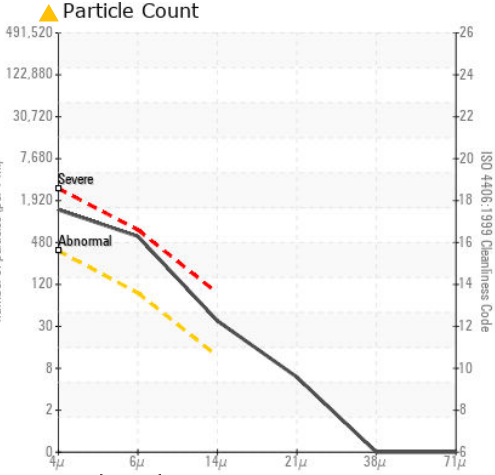
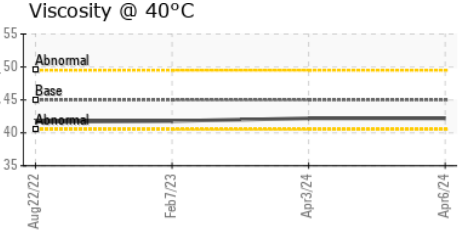
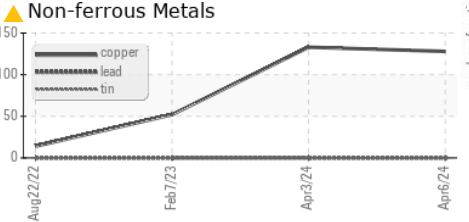
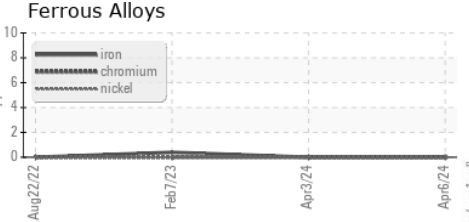
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 45	42.2	42.2	41.8

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0782794      **Received** : 10 Apr 2024  
**Lab Number** : 06144198      **Tested** : 11 Apr 2024  
**Unique Number** : 10969006      **Diagnosed** : 15 Apr 2024 - Jonathan Hester  
**Test Package** : IND 2

**WEST SIDE SOLUTIONS**  
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 westsidesolutionsus@gmail.com  
 T: (216)577-5014  
 F:

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)