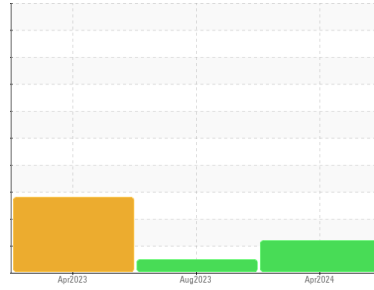




# OIL ANALYSIS REPORT

## Sample Rating Trend



ISO



Machine Id

**CR1219**

Component

**Hydraulic System**

Fluid

**AW HYDRAULIC OIL ISO 32 (--- GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate 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>WC0877526</b>	WC0833398	WC0784844
Sample Date	Client Info			<b>19 Apr 2024</b>	07 Aug 2023	13 Apr 2023
Machine Age	hrs	Client Info		<b>3611</b>	0	2619
Oil Age	hrs	Client Info		<b>992</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>ATTENTION</b>	NORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.1	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>2</b>	1	3
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>10	<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	>10	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>75	<b>3</b>	2	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<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	5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	5	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	25	<b>3</b>	2	7
Calcium	ppm	ASTM D5185m	200	<b>27</b>	33	40
Phosphorus	ppm	ASTM D5185m	300	<b>179</b>	192	185
Zinc	ppm	ASTM D5185m	370	<b>178</b>	192	196
Sulfur	ppm	ASTM D5185m	2500	<b>1014</b>	980	818

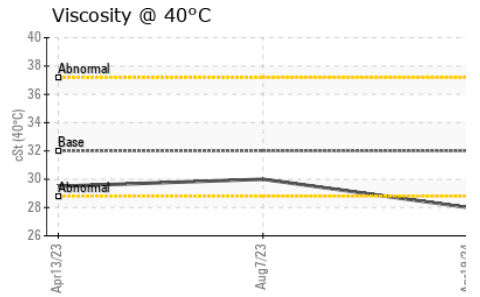
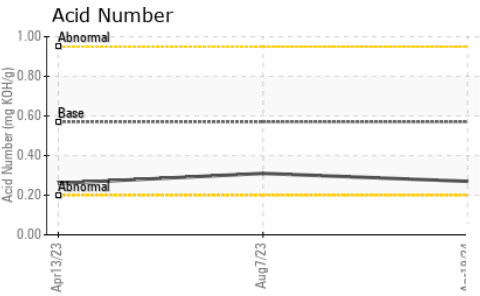
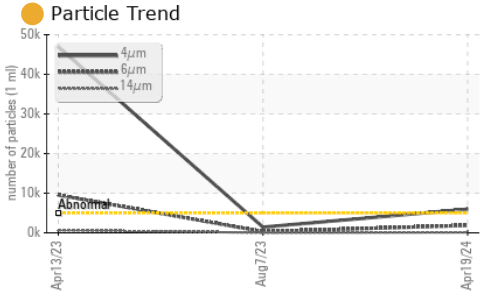
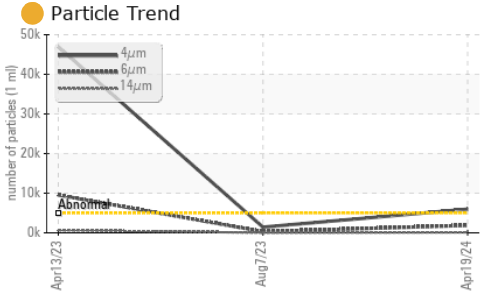
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Sodium	ppm	ASTM D5185m		<b>1</b>	0	<1
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	<1	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>5980</b>	1430	▲ 46961
Particles >6µm		ASTM D7647	>1300	<b>1891</b>	298	▲ 9531
Particles >14µm		ASTM D7647	>160	<b>115</b>	19	▲ 640
Particles >21µm		ASTM D7647	>40	<b>30</b>	6	▲ 143
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	9
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>20/18/14</b>	18/15/11	▲ 23/20/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	<b>0.27</b>	0.31	0.26



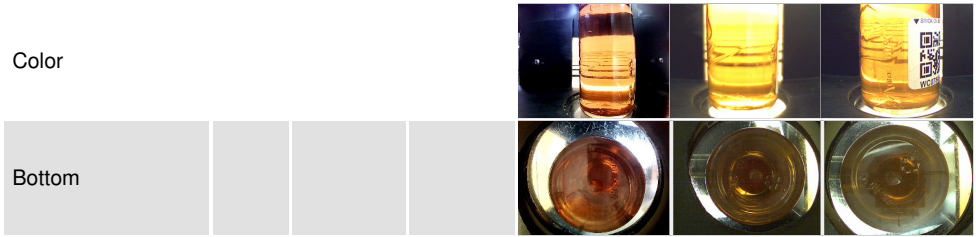
# OIL ANALYSIS REPORT



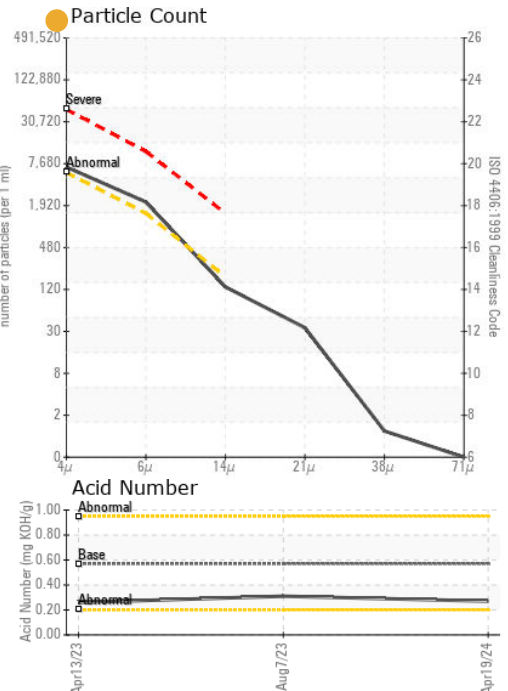
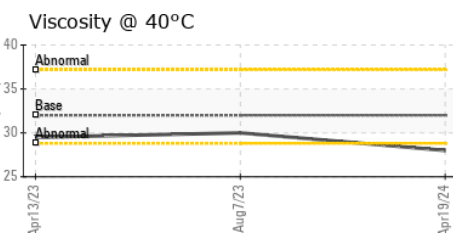
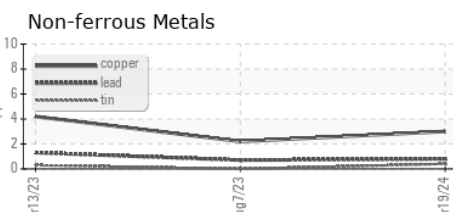
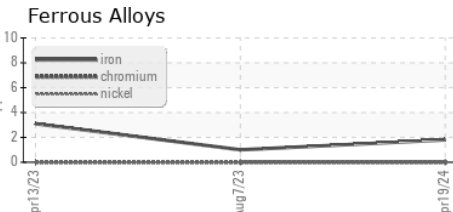
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 32	<b>28.0</b>	30.0	29.5

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0877526      **Received** : 25 Apr 2024  
**Lab Number** : **06160932**      **Tested** : 26 Apr 2024  
**Unique Number** : 10996355      **Diagnosed** : 29 Apr 2024 - Don Baldrige  
**Test Package** : CONST

**BUCKNER - WILLIS**  
 18123 HWY 75 NORTH  
 WILLIS, TX 77378  
 Contact: JOHN HAWKINS  
 johnh@bucknercompanies.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)