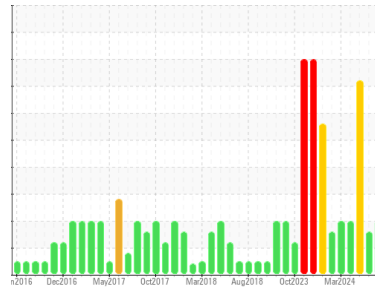




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

## LOW FIRMNESS

Component

### Hydraulic System

Fluid

#### AW HYDRAULIC OIL ISO 46 (--- GAL)

#### DIAGNOSIS

##### Recommendation

Little or no information is provided as to the component and lubricant being tested. Recommendations are therefore generic in nature and may not apply to the current application. Please forward information as to equipment type, reservoir capacity, lubricant type and any pertinent information to allow for a more accurate assessment. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

##### Wear

All component wear rates are normal.

##### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

##### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

#### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0859528	WC0859527	WC0859525
Sample Date	Client Info	12 Jul 2024	12 Jun 2024	13 May 2024
Machine Age	wks	Client Info	0	0
Oil Age	wks	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	SEVERE

#### CONTAMINATION

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

#### WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	0
Chromium	ppm	ASTM D5185m >20	0	<1
Nickel	ppm	ASTM D5185m >20	<1	0
Titanium	ppm	ASTM D5185m	0	<1
Silver	ppm	ASTM D5185m	<1	<1
Aluminum	ppm	ASTM D5185m >20	0	0
Lead	ppm	ASTM D5185m >20	0	0
Copper	ppm	ASTM D5185m >20	0	<1
Tin	ppm	ASTM D5185m >20	<1	<1
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	<1	<1

#### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	0
Barium	ppm	ASTM D5185m 5	0	0
Molybdenum	ppm	ASTM D5185m 5	0	<1
Manganese	ppm	ASTM D5185m	0	<1
Magnesium	ppm	ASTM D5185m 25	1	0
Calcium	ppm	ASTM D5185m 200	38	41
Phosphorus	ppm	ASTM D5185m 300	357	331
Zinc	ppm	ASTM D5185m 370	450	441
Sulfur	ppm	ASTM D5185m 2500	1015	1053

#### CONTAMINANTS

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

#### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	4384	5197	13808
Particles >6µm	ASTM D7647 >640	1303	1703	5189
Particles >14µm	ASTM D7647 >80	131	128	707
Particles >21µm	ASTM D7647 >20	35	20	212
Particles >38µm	ASTM D7647 >4	4	0	6
Particles >71µm	ASTM D7647 >3	1	0	1
Oil Cleanliness	ISO 4406 (c) >18/16/13	19/18/14	20/18/14	21/20/17

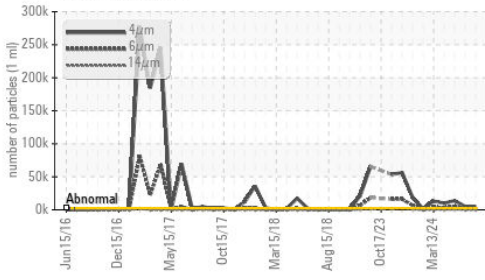
#### FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.27	0.28

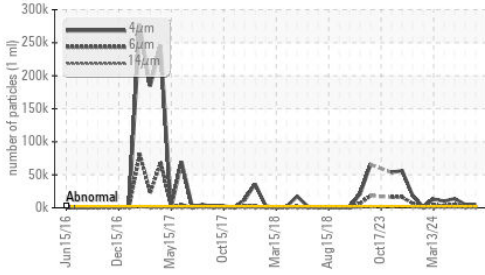


# OIL ANALYSIS REPORT

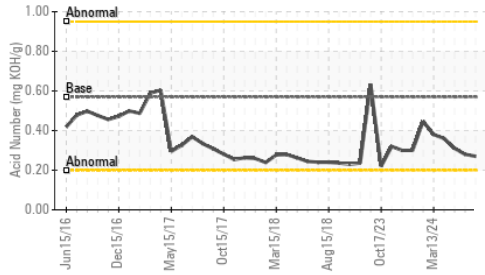
## Particle Trend



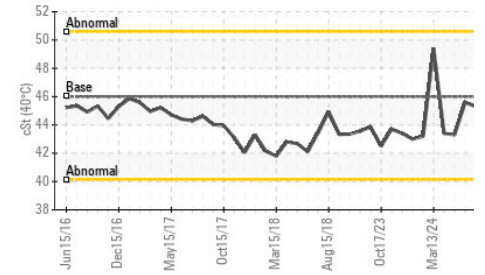
## Particle Trend



## Acid Number



## Viscosity @ 40°C



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	>0.05	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

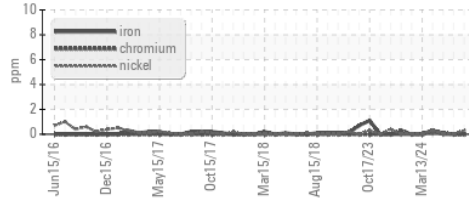
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	45.3	45.6	43.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

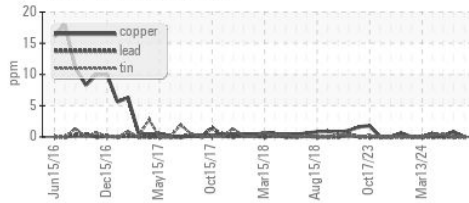


## GRAPHS

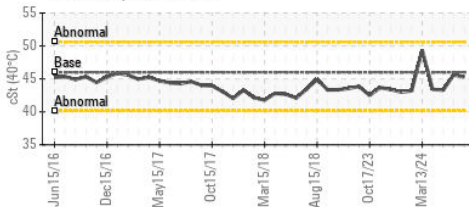
### Ferrous Alloys



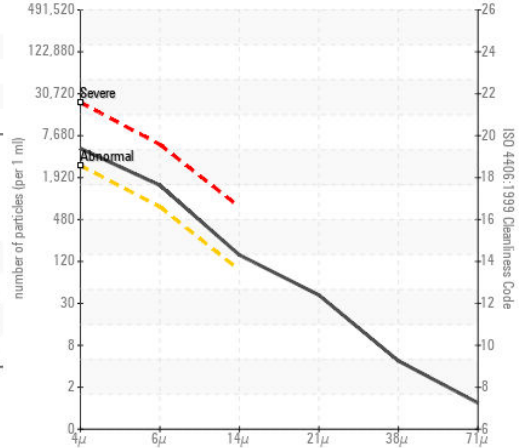
### Non-ferrous Metals



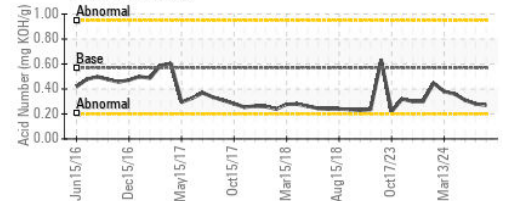
### Viscosity @ 40°C



### Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0859528  
**Lab Number** : 06238369  
**Unique Number** : 11127203  
**Test Package** : IND 2

**Received** : 16 Jul 2024  
**Tested** : 17 Jul 2024  
**Diagnosed** : 17 Jul 2024 - Wes Davis

**WOODBRIIDGE CORPORATION**  
 2399 SOUTH STONE MOUNTAIN  
 LITHONIA, GA  
 US 30058  
 Contact: MIKE FRYER  
 mike\_fryer@woodbridgegroup.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)