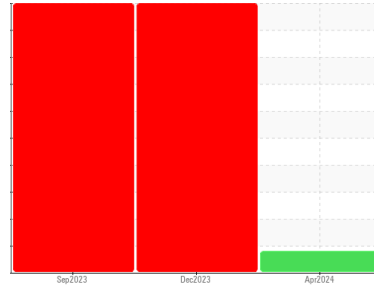


# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**JOHN DEERE 529**

Component  
**Rear Differential**

Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

## DIAGNOSIS

### Recommendation

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

### Wear

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

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0118136</b>	PCA0107136	PCA0066395
Sample Date	Client Info		<b>18 Apr 2024</b>	21 Dec 2023	21 Sep 2023
Machine Age	hrs	Client Info	<b>6123</b>	4800	3635
Oil Age	hrs	Client Info	<b>500</b>	1165	3635
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>ABNORMAL</b>	SEVERE	SEVERE

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >500	<b>77</b>	21	118
Chromium	ppm	ASTM D5185m >10	<b>1</b>	0	<1
Nickel	ppm	ASTM D5185m >10	<b>1</b>	0	1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	<1	2
Lead	ppm	ASTM D5185m >25	<b>49</b>	51	128
Copper	ppm	ASTM D5185m >100	<b>65</b>	456	514
Tin	ppm	ASTM D5185m >10	<b>3</b>	30	16
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6	<b>11</b>	78	27
Barium	ppm	ASTM D5185m 0	<b>&lt;1</b>	0	5
Molybdenum	ppm	ASTM D5185m 0	<b>4</b>	2	0
Manganese	ppm	ASTM D5185m	<b>2</b>	<1	2
Magnesium	ppm	ASTM D5185m 145	<b>100</b>	67	74
Calcium	ppm	ASTM D5185m 3570	<b>3313</b>	2894	2764
Phosphorus	ppm	ASTM D5185m 1290	<b>1055</b>	1061	1000
Zinc	ppm	ASTM D5185m 1640	<b>1227</b>	1186	1042
Sulfur	ppm	ASTM D5185m	<b>4823</b>	2907	3548

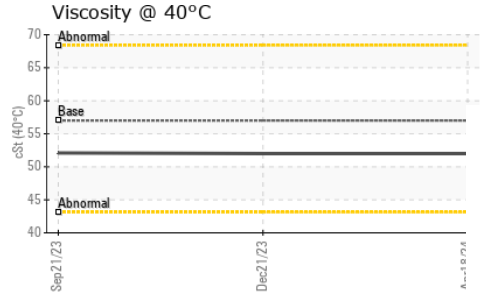
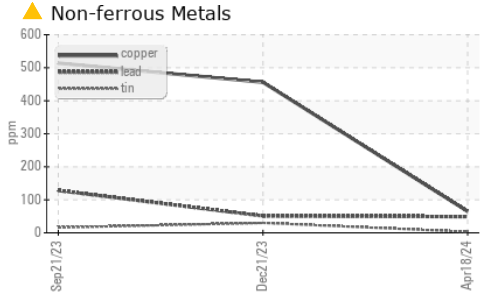
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>13</b>	6	6
Sodium	ppm	ASTM D5185m	<b>0</b>	2	3
Potassium	ppm	ASTM D5185m >20	<b>3</b>	0	2

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >.2	<b>NEG</b>	0.2%	NEG
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

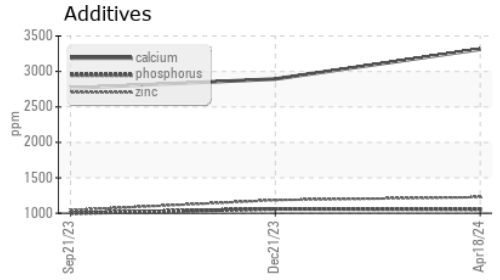
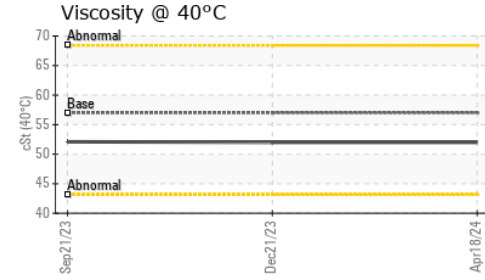
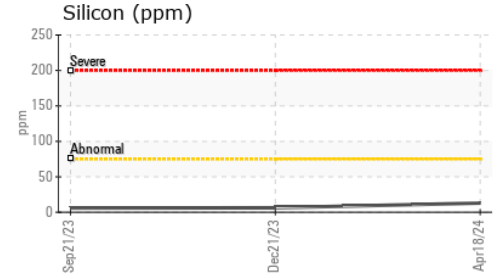
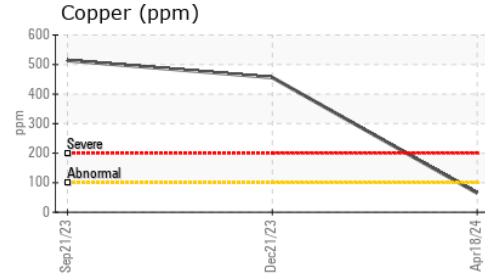
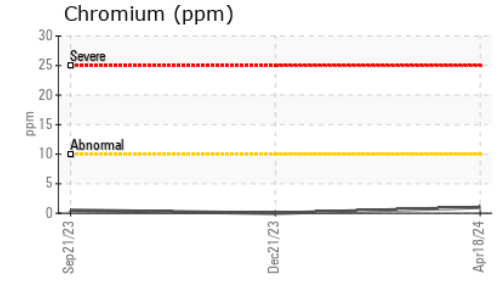
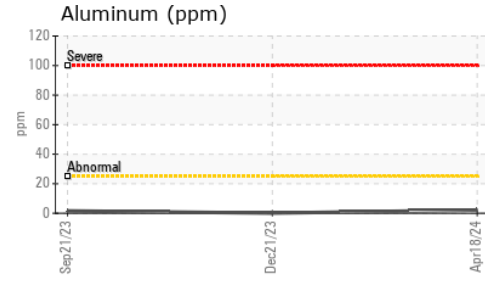
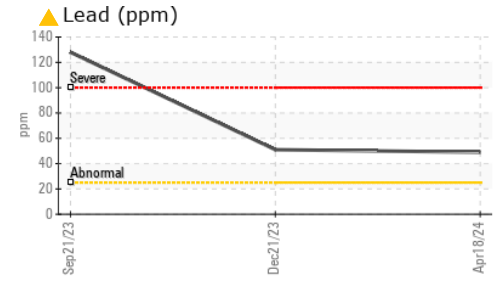
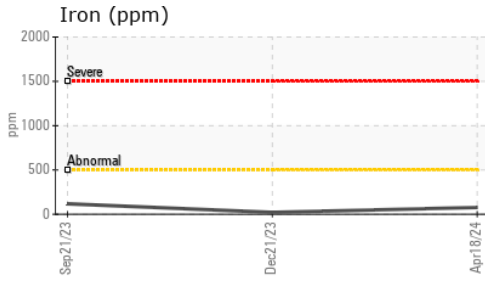


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	52.0	52.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color	no image	no image	no image
Bottom	no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118136      **Received** : 24 Apr 2024  
**Lab Number** : 06159930      **Tested** : 25 Apr 2024  
**Unique Number** : 10995353      **Diagnosed** : 26 Apr 2024 - Don Baldrige  
**Test Package** : MOB 1

**CENTRAL VALLEY AG**  
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 OAKDALE, CA  
 US 95361  
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 smchenry@cv-ag.com  
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 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)