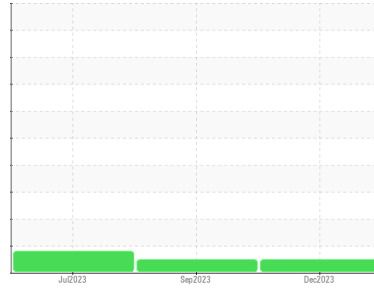


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**JOHN DEERE 529**

Component  
**Diesel Engine**

Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0107138</b>	PCA0096378	PCA0081004
Sample Date	Client Info		<b>21 Dec 2023</b>	21 Sep 2023	25 Jul 2023
Machine Age	hrs	Client Info	<b>4800</b>	3635	2850
Oil Age	hrs	Client Info	<b>1165</b>	786	1076
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>51	<b>26</b>	17	26
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	0	3
Lead	ppm	ASTM D5185m	>26	<b>2</b>	6	▲ 35
Copper	ppm	ASTM D5185m	>26	<b>4</b>	3	6
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	<b>2</b>	<1	30
Barium	ppm	ASTM D5185m	10	<b>9</b>	0	<1
Molybdenum	ppm	ASTM D5185m	100	<b>70</b>	72	264
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	450	<b>972</b>	927	853
Calcium	ppm	ASTM D5185m	3000	<b>1265</b>	1159	1389
Phosphorus	ppm	ASTM D5185m	1150	<b>983</b>	874	770
Zinc	ppm	ASTM D5185m	1350	<b>1319</b>	1174	1028
Sulfur	ppm	ASTM D5185m	4250	<b>2836</b>	3439	3296

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	<b>10</b>	6	8
Sodium	ppm	ASTM D5185m	>158	<b>0</b>	4	7
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	3

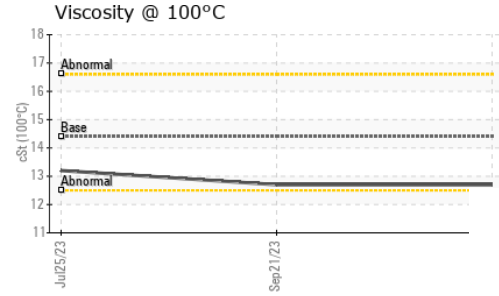
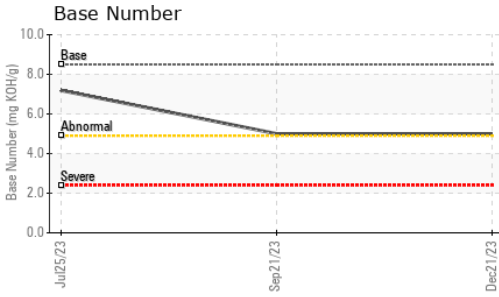
## INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>0.7</b>	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	9.4	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.8</b>	24.2	33.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.6</b>	24.8	34.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>5.0</b>	5.0	7.19

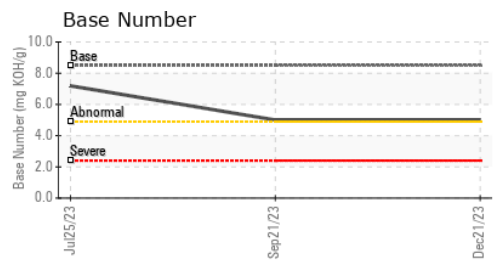
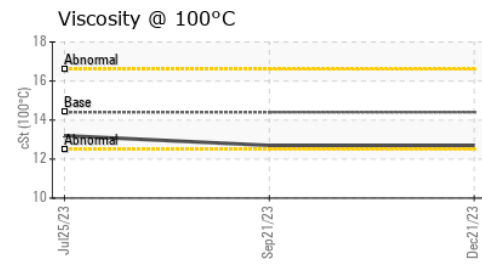
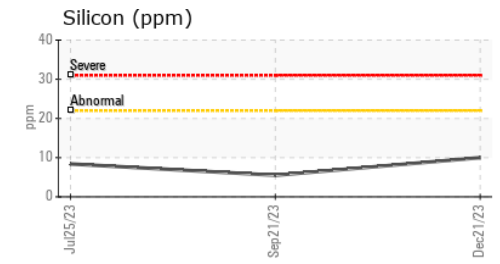
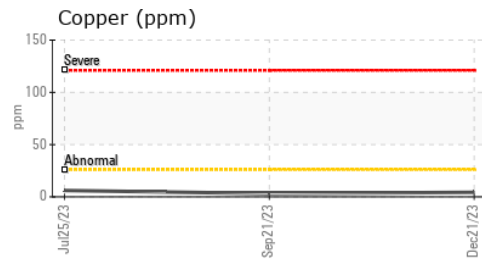
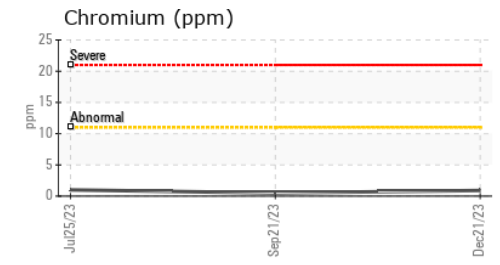
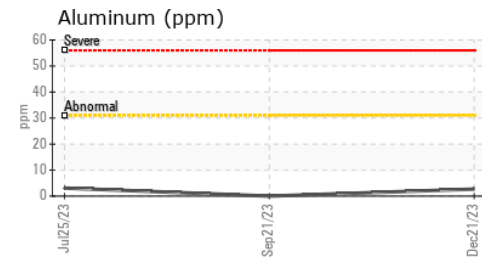
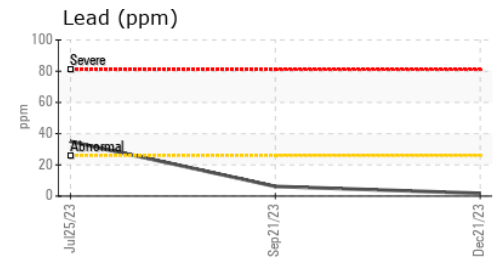
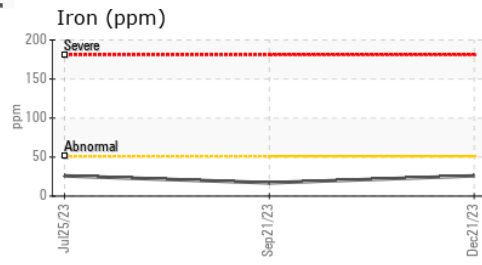
# OIL ANALYSIS REPORT



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	>0.21	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	<b>12.7</b>	12.7	13.2

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0107138 **Received** : 26 Dec 2023  
**Lab Number** : **06045464** **Diagnosed** : 27 Dec 2023  
**Unique Number** : 10806072 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**CENTRAL VALLEY AG**  
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 OAKDALE, CA  
 US 95361  
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 smchenry@cv-ag.com  
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Certificate L2367  
 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)