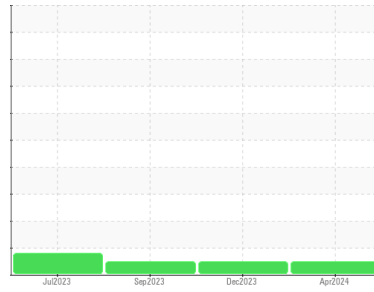


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**JOHN DEERE 529**  
 Component  
**Diesel Engine**  
 Fluid  
**DISEL 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>PCA0118154</b>	PCA0107138	PCA0096378
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>1323</b>	1165	786
Oil Changed	Client Info		<b>Changed</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### 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>21</b>	26	17
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>4</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	3	0
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	2	6
Copper	ppm	ASTM D5185m	>26	<b>4</b>	4	3
Tin	ppm	ASTM D5185m	>4	<b>0</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	<1

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	<b>47</b>	2	<1
Barium	ppm	ASTM D5185m	10	<b>&lt;1</b>	9	0
Molybdenum	ppm	ASTM D5185m	100	<b>208</b>	70	72
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>898</b>	972	927
Calcium	ppm	ASTM D5185m	3000	<b>1483</b>	1265	1159
Phosphorus	ppm	ASTM D5185m	1150	<b>868</b>	983	874
Zinc	ppm	ASTM D5185m	1350	<b>1181</b>	1319	1174
Sulfur	ppm	ASTM D5185m	4250	<b>3624</b>	2836	3439

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	<b>7</b>	10	6
Sodium	ppm	ASTM D5185m	>158	<b>2</b>	0	4
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	4	1

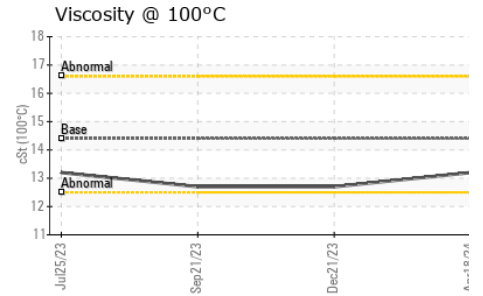
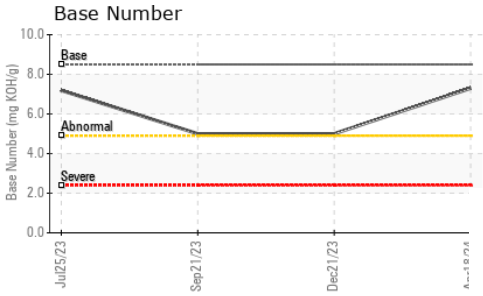
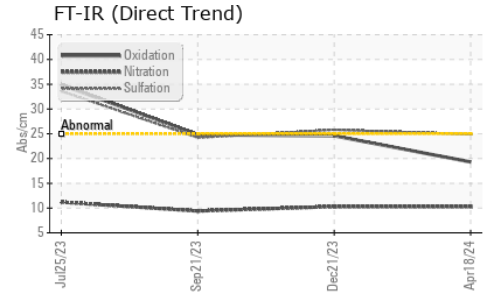
### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>0.8</b>	0.7	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.3</b>	10.3	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.9</b>	25.8	24.2

### FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	24.6	24.8
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>7.3</b>	5.0	5.0

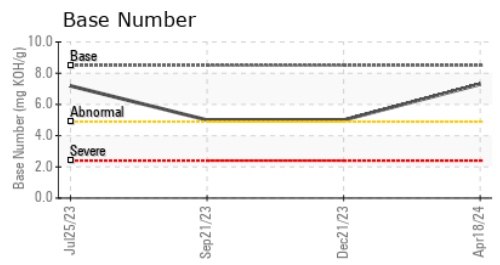
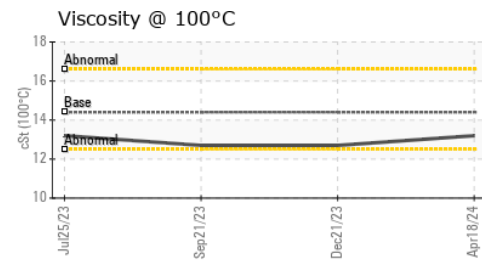
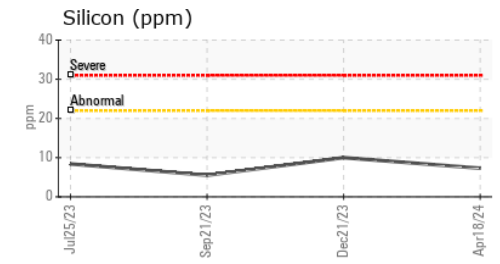
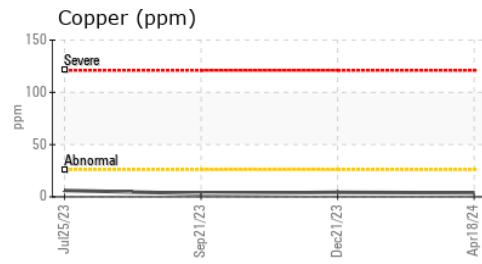
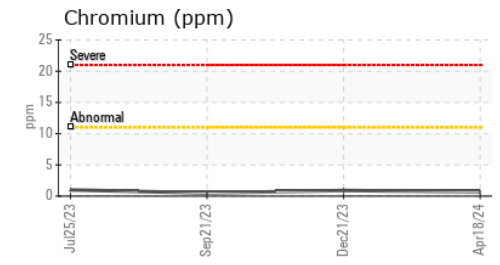
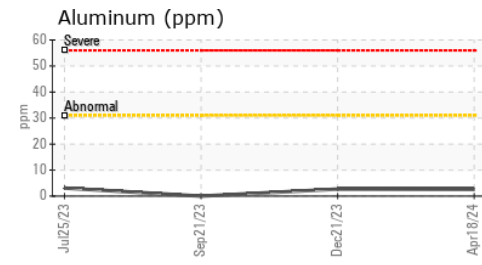
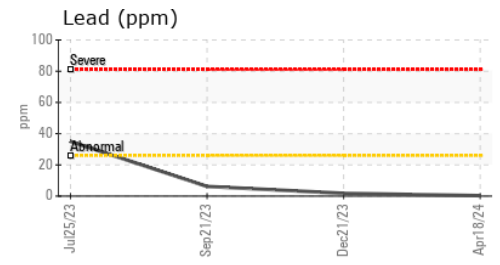
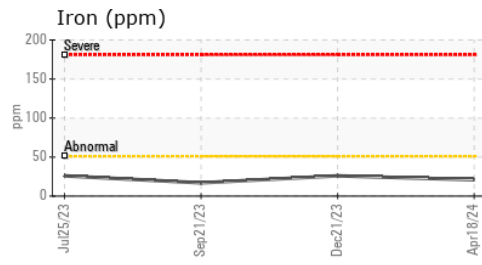
# OIL ANALYSIS REPORT



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	13.2	12.7

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118154      **Received** : 24 Apr 2024  
**Lab Number** : 06159638      **Tested** : 25 Apr 2024  
**Unique Number** : 10995061      **Diagnosed** : 25 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**CENTRAL VALLEY AG**  
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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)