

# OIL ANALYSIS REPORT

**Sample Rating Trend**

**WEAR**


Machine Id  
**JOHN DEERE 644P (S/N 15919)**  
 Component  
**Rear Differential**  
 Fluid  
**{not provided} (--- GAL)**

**DIAGNOSIS**
**Recommendation**

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**

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

**Contamination**

Moderate concentration of visible dirt/debris present in the oil.

**Fluid Condition**

The AN level is acceptable for this fluid. 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>PCA0118155</b>	---	---
Sample Date	Client Info	<b>06 May 2024</b>	---	---
Machine Age	hrs Client Info	<b>3076</b>	---	---
Oil Age	hrs Client Info	<b>3076</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

**CONTAMINATION**

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

**WEAR METALS**

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >500	<b>22</b>	---	---
Chromium	ppm ASTM D5185m >10	<b>&lt;1</b>	---	---
Nickel	ppm ASTM D5185m >10	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >25	<b>2</b>	---	---
Lead	ppm ASTM D5185m >25	<b>▲ 43</b>	---	---
Copper	ppm ASTM D5185m >100	<b>89</b>	---	---
Tin	ppm ASTM D5185m >10	<b>2</b>	---	---
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	---	---

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>98</b>	---	---
Barium	ppm ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>1</b>	---	---
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m	<b>24</b>	---	---
Calcium	ppm ASTM D5185m	<b>2966</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>1102</b>	---	---
Zinc	ppm ASTM D5185m	<b>1270</b>	---	---
Sulfur	ppm ASTM D5185m	<b>3708</b>	---	---

**CONTAMINANTS**

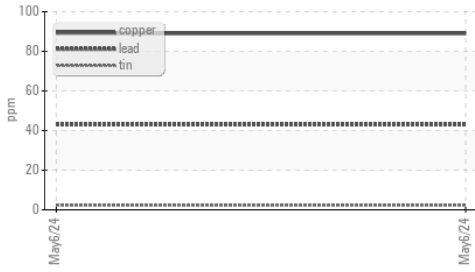
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >75	<b>8</b>	---	---
Sodium	ppm ASTM D5185m	<b>0</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>3</b>	---	---

**FLUID DEGRADATION**

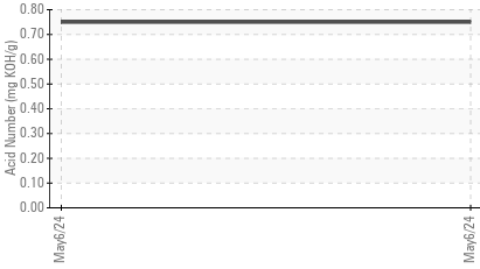
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.75</b>	---	---

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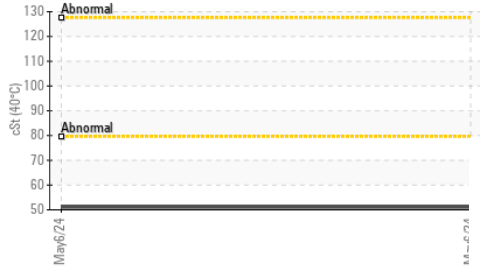
### ▲ Non-ferrous Metals



### Acid Number



### Viscosity @ 40°C



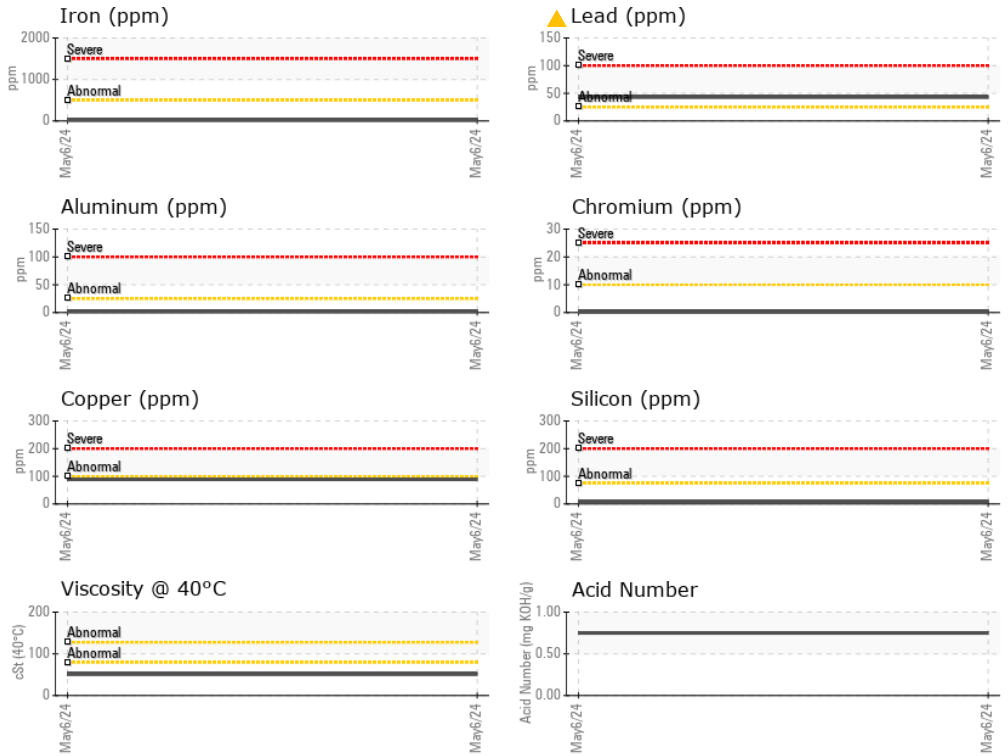
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	51.1	---	---

### SAMPLE IMAGES

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

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118155      **Received** : 13 May 2024  
**Lab Number** : 06177826      **Tested** : 14 May 2024  
**Unique Number** : 11029152      **Diagnosed** : 15 May 2024 - Angela Borella  
**Test Package** : MOB 1

**CENTRAL VALLEY AG**  
 5707 LANGWORTH  
 OAKDALE, CA  
 US 95361  
 Contact: LAB TECH  
 m-labtech@outlook.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)