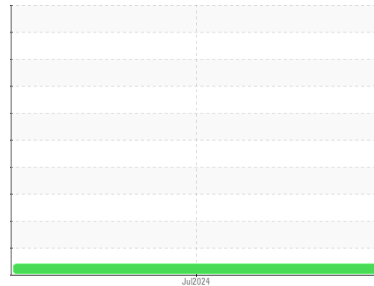


# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id  
**JOHN DEERE 700L 6X27 (S/N 1T0700LXLNF428359)**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

**DIAGNOSIS**

● **Recommendation**

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

● **Wear**

Metal levels are typical for a new component breaking in.

● **Contamination**

Fuel content negligible. There is no indication of any contamination in the oil.

● **Fluid Condition**

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**SAMPLE INFORMATION**    method    limit/base    current    history1    history2

Sample Number	Client Info		<b>JR0197059</b>	---	---
Sample Date	Client Info		<b>12 Jul 2024</b>	---	---
Machine Age	hrs	Client Info	<b>104</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Not Changed</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

**CONTAMINATION**    method    limit/base    current    history1    history2

Water	WC Method	>0.21	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

**WEAR METALS**    method    limit/base    current    history1    history2

Iron	ppm	ASTM D5185m	>51	<b>14</b>	---	---
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	---	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>26	<b>63</b>	---	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

**ADDITIVES**    method    limit/base    current    history1    history2

Boron	ppm	ASTM D5185m		<b>261</b>	---	---
Barium	ppm	ASTM D5185m		<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>243</b>	---	---
Manganese	ppm	ASTM D5185m		<b>3</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>798</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1422</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>897</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1014</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3349</b>	---	---

**CONTAMINANTS**    method    limit/base    current    history1    history2

Silicon	ppm	ASTM D5185m	>22	<b>10</b>	---	---
Sodium	ppm	ASTM D5185m	>31	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	---	---
Fuel	%	ASTM D3524	>2.1	<b>0.3</b>	---	---

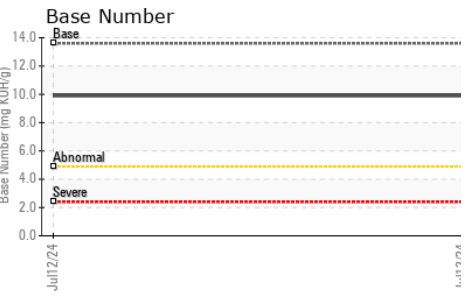
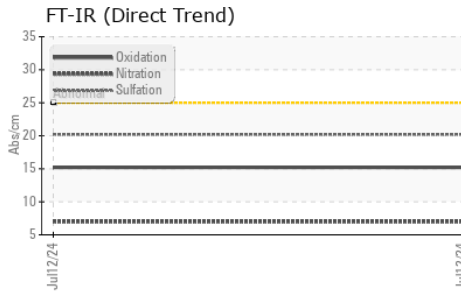
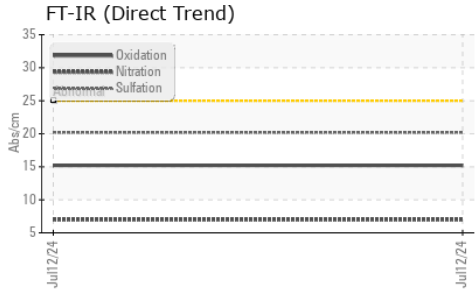
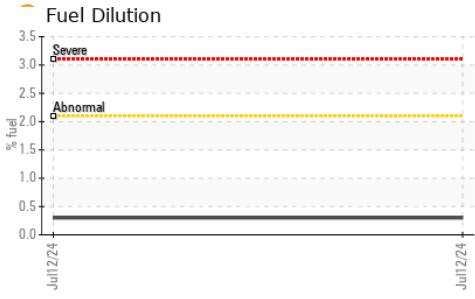
**INFRA-RED**    method    limit/base    current    history1    history2

Soot %	%	*ASTM D7844	>3	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.0</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.2</b>	---	---

**FLUID DEGRADATION**    method    limit/base    current    history1    history2

Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.9</b>	---	---

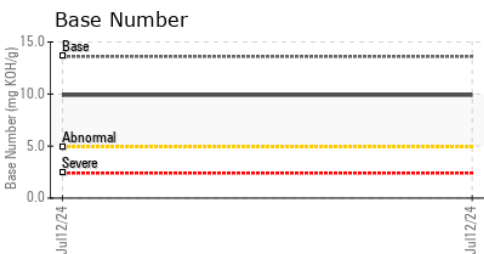
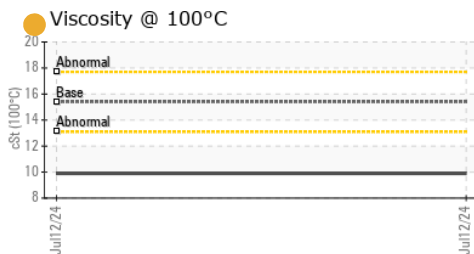
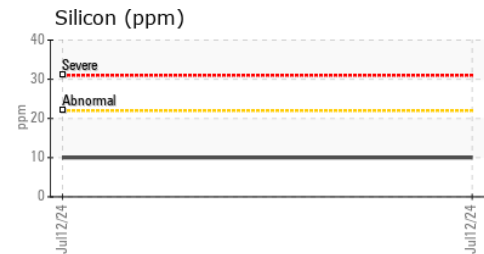
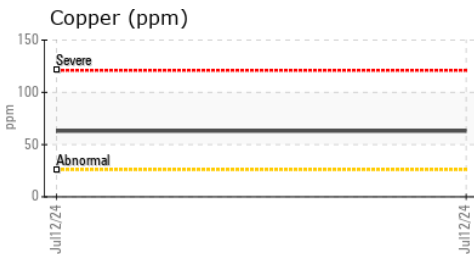
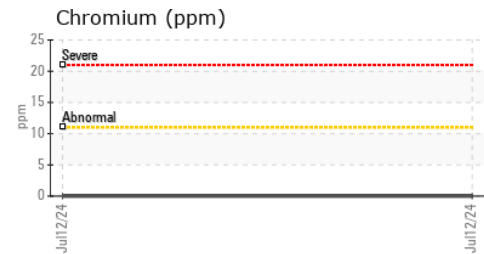
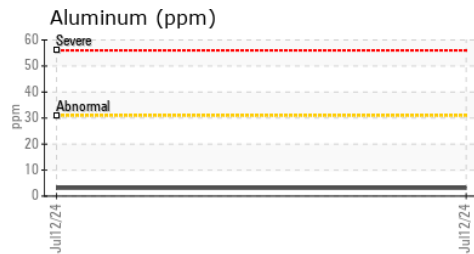
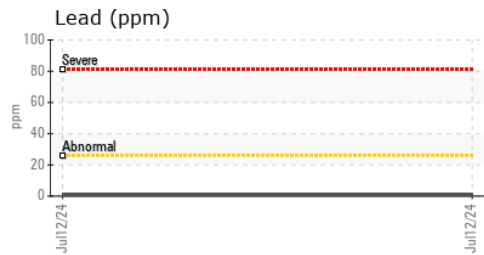
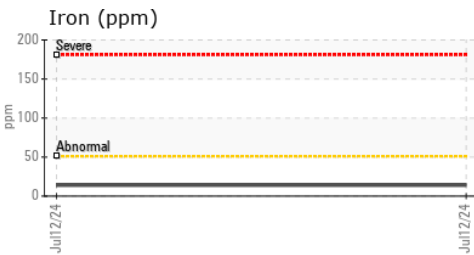
# OIL ANALYSIS REPORT



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	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4 ● 9.9	---	---

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197059 **Received** : 16 Jul 2024  
**Lab Number** : 06237556 **Tested** : 18 Jul 2024  
**Unique Number** : 11126390 **Diagnosed** : 18 Jul 2024 - Sean Felton  
**Test Package** : MOBCE ( Additional Tests: FuelDilution, PercentFuel, TBN )

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)

**NC FOREST SERVICE**  
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 US 28306

Contact: WALTER CAPPS  
WATER.CAPPS@NCAGR.GOV

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