



# OIL ANALYSIS REPORT

WEAR	<b>SEVERE</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Store 9 - Marietta**  
Machine Id  
**JOHN DEERE 333 34-019**  
Component  
**Right Final Drive**  
Fluid  
**DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

## RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LEC0050942</b>	---	---
Sample Date		Client Info		<b>11 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>500</b>	---	---
Oil Age	hrs	Client Info		<b>500</b>	---	---
Filter Age	hrs	Client Info		<b>500</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

## WEAR

Gear wear is indicated.

PQ		ASTM D8184		<b>181</b>	---	---
Iron	ppm	ASTM D5185m	>500	<b>▲ 2248</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>▲ 35</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	---	---
Titanium	ppm	ASTM D5185m		<b>2</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>12</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>3</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

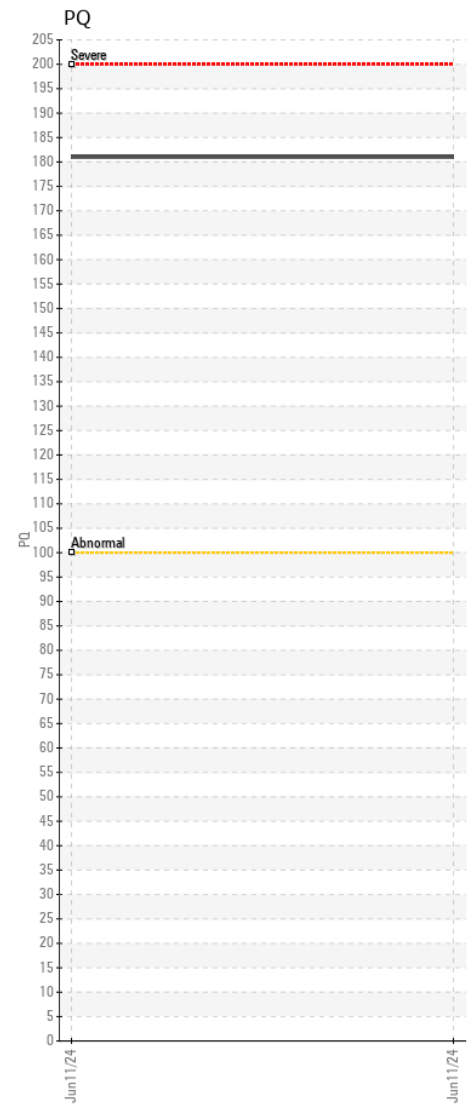
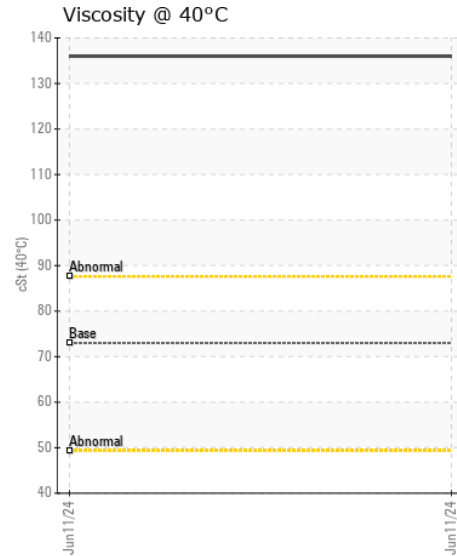
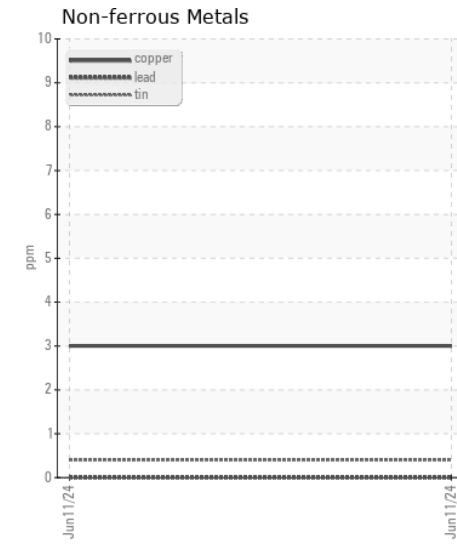
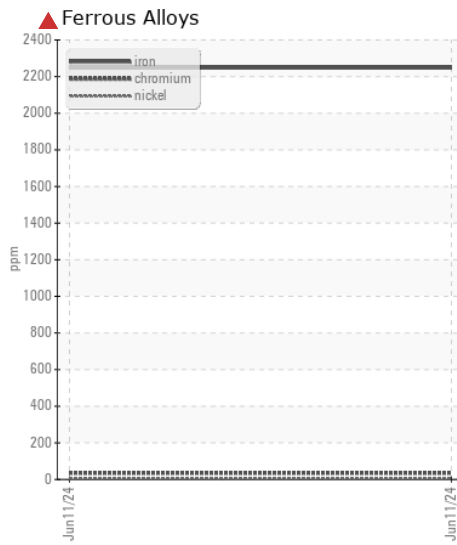
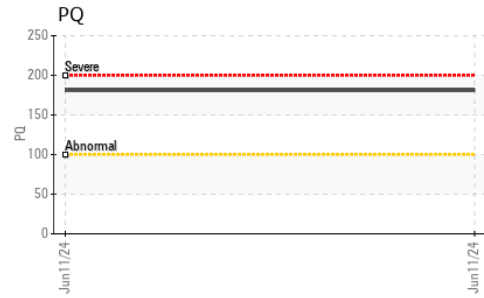
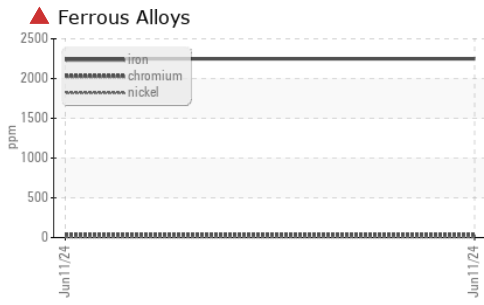
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>40</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>27</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

## FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		<b>16</b>	---	---
Boron	ppm	ASTM D5185m	250	<b>2</b>	---	---
Barium	ppm	ASTM D5185m	10	<b>106</b>	---	---
Molybdenum	ppm	ASTM D5185m	100	<b>2</b>	---	---
Manganese	ppm	ASTM D5185m		<b>24</b>	---	---
Magnesium	ppm	ASTM D5185m	450	<b>17</b>	---	---
Calcium	ppm	ASTM D5185m	3000	<b>40</b>	---	---
Phosphorus	ppm	ASTM D5185m	1150	<b>283</b>	---	---
Zinc	ppm	ASTM D5185m	1350	<b>18</b>	---	---
Sulfur	ppm	ASTM D5185m	4250	<b>18961</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0050942 **Received** : 17 Jun 2024  
**Lab Number** : 06212602 **Tested** : 19 Jun 2024  
**Unique Number** : 11085466 **Diagnosed** : 19 Jun 2024 - Angela Borella  
**Test Package** : CONST ( Additional Tests: PQ )

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)

**HAYDEN EXCAVATING**  
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