



# OIL ANALYSIS REPORT

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

Area

[W9009]

Machine Id

8036-1016

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (10 QTS)

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W9009 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0196943	JR0197162	---
Sample Date		Client Info		12 Jun 2024	01 Feb 2024	---
Machine Age	hrs	Client Info		7287	6708	---
Oil Age	hrs	Client Info		579	6708	---
Filter Age	hrs	Client Info		579	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	10	15	---
Chromium	ppm	ASTM D5185m	>20	<1	1	---
Nickel	ppm	ASTM D5185m	>4	0	0	---
Titanium	ppm	ASTM D5185m		<1	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>20	7	7	---
Lead	ppm	ASTM D5185m	>40	0	0	---
Copper	ppm	ASTM D5185m	>330	<1	<1	---
Tin	ppm	ASTM D5185m	>15	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

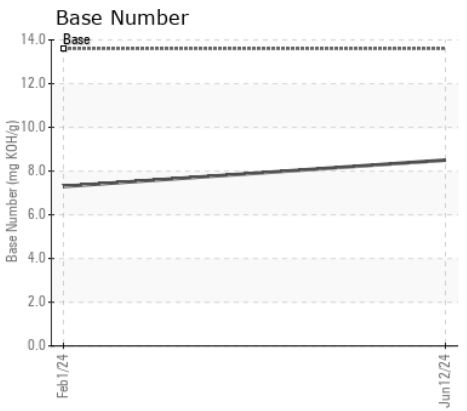
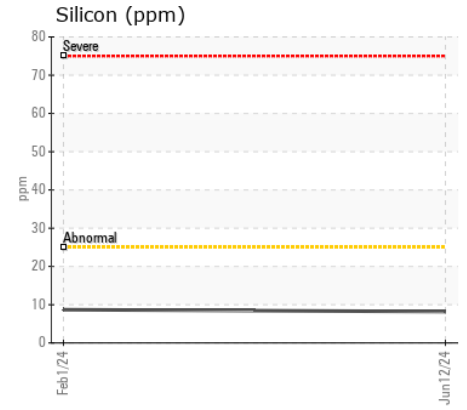
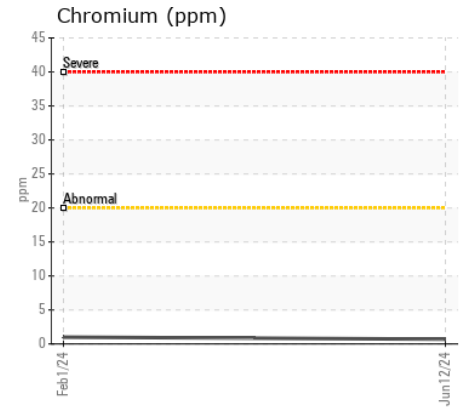
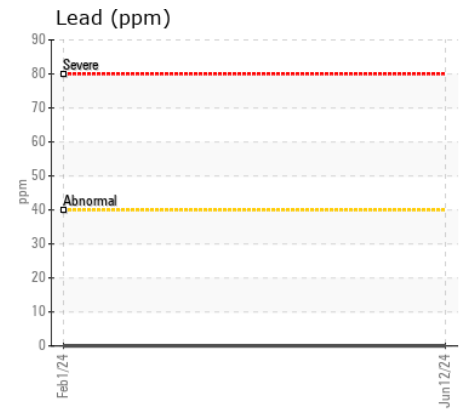
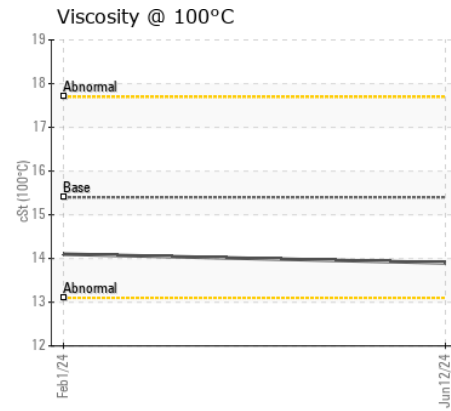
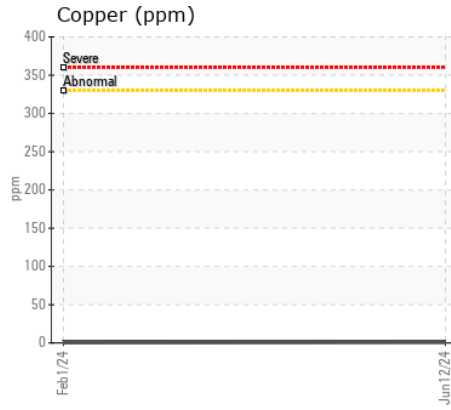
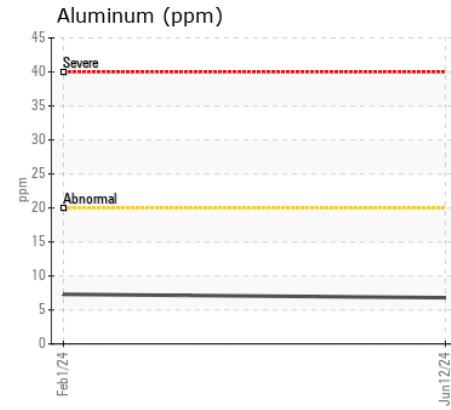
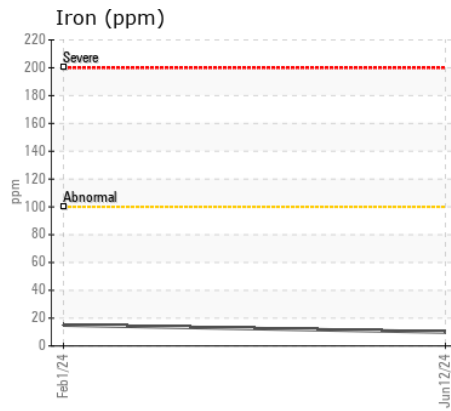
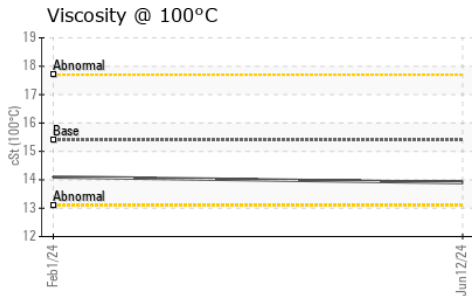
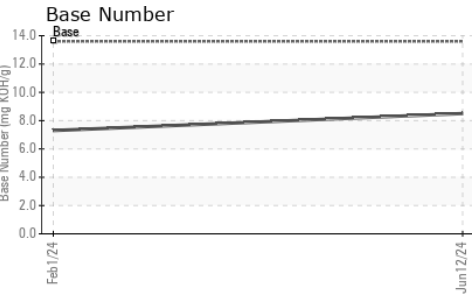
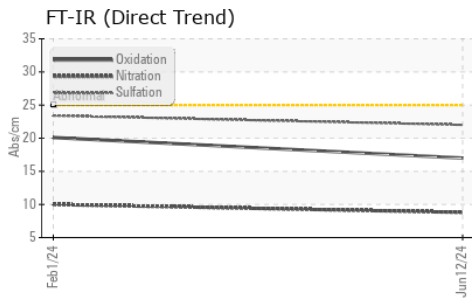
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	8	9	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Fuel		WC Method	>5	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	23.4	---
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	>0.2	NEG	NEG	---

## 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.

Sodium	ppm	ASTM D5185m		0	2	---
Boron	ppm	ASTM D5185m		236	156	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		255	224	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		796	739	---
Calcium	ppm	ASTM D5185m		1432	1469	---
Phosphorus	ppm	ASTM D5185m		827	899	---
Zinc	ppm	ASTM D5185m		1099	1087	---
Sulfur	ppm	ASTM D5185m		3278	3014	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	20.1	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	7.3	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.1	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0196943 **Received** : 14 Jun 2024  
**Lab Number** : 06209869 **Tested** : 15 Jun 2024  
**Unique Number** : 11082733 **Diagnosed** : 17 Jun 2024 - Angela Borella  
**Test Package** : MOBCE ( Additional Tests: TBN )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529  
 Contact: RALEIGH SHOP

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)

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