



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

Machine Id  
**JOHN DEERE 350P 1FF350PAKNF000420**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0221021</b>	JR0200972	JR0182327
Sample Date		Client Info		<b>27 Jun 2024</b>	19 Mar 2024	25 Sep 2023
Machine Age	hrs	Client Info		<b>1492</b>	1187	721
Oil Age	hrs	Client Info		<b>305</b>	466	721
Filter Age	hrs	Client Info		<b>305</b>	466	721
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>19</b>	27	51
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	0	1
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	6	12
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	2	4
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	4
Copper	ppm	ASTM D5185m	>26	<b>7</b>	▲ 27	▲ 108
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

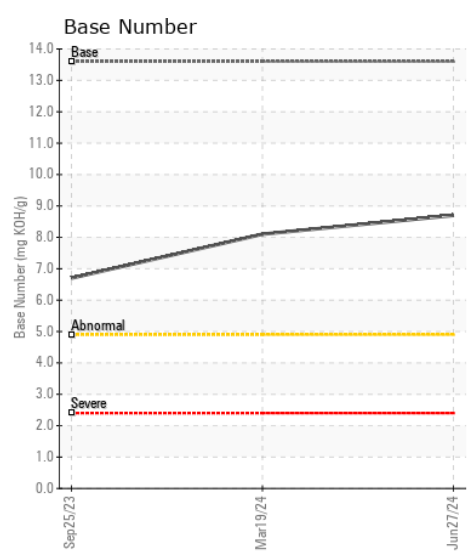
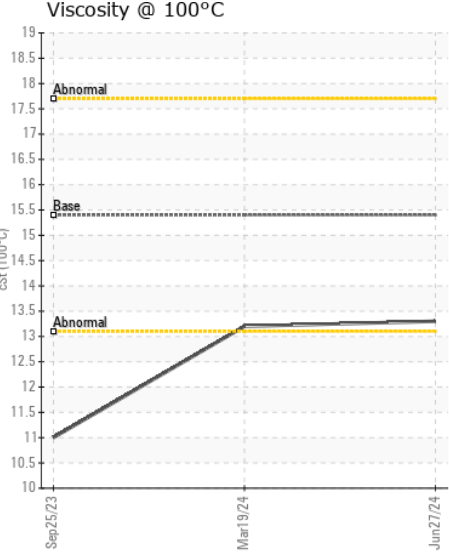
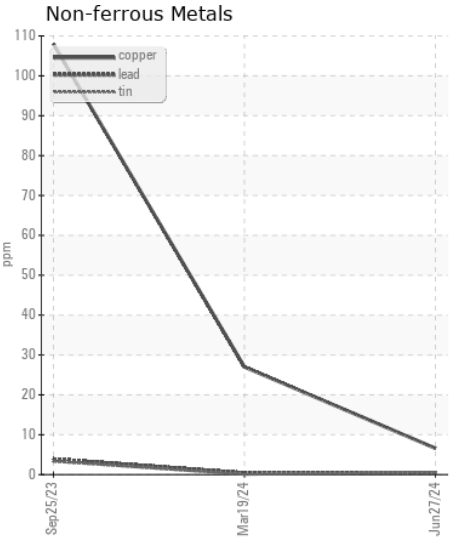
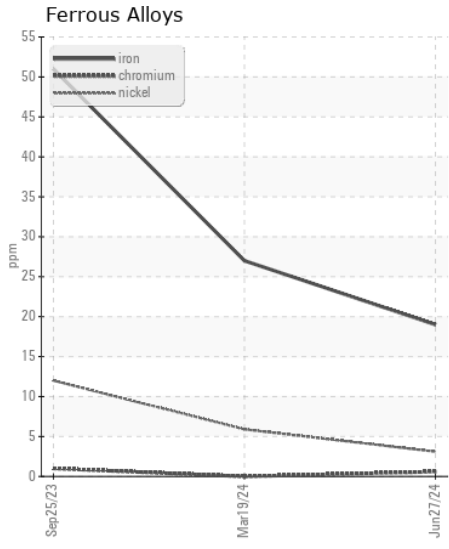
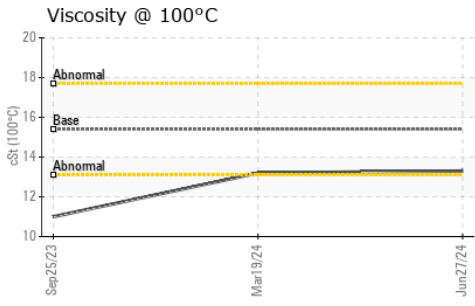
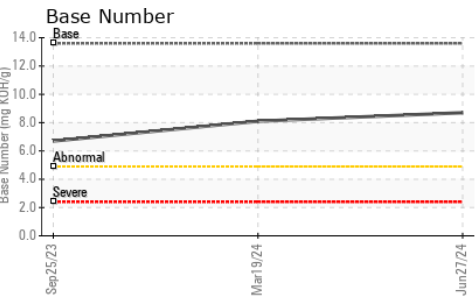
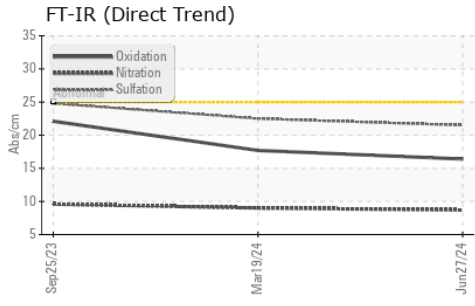
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	7	11
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	10
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	0.4
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.3</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.7</b>	9.0	9.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.5</b>	22.5	24.8
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	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	>31	<b>1</b>	2	9
Boron	ppm	ASTM D5185m		<b>194</b>	180	140
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Molybdenum	ppm	ASTM D5185m		<b>250</b>	246	220
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	2
Magnesium	ppm	ASTM D5185m		<b>896</b>	845	776
Calcium	ppm	ASTM D5185m		<b>1605</b>	1469	1579
Phosphorus	ppm	ASTM D5185m		<b>980</b>	920	813
Zinc	ppm	ASTM D5185m		<b>1188</b>	1119	1038
Sulfur	ppm	ASTM D5185m		<b>3877</b>	3438	3303
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	17.7	22.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.7</b>	8.1	6.7
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.3</b>	13.2	● 11.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0221021 **Received** : 01 Jul 2024  
**Lab Number** : 06224407 **Tested** : 02 Jul 2024  
**Unique Number** : 11102604 **Diagnosed** : 02 Jul 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: TBN )

**JRE - NEW BERN**  
 3816 MARTIN LUTHER KING BLVD  
 NEW BERN, NC  
 US 28562  
 Contact: NEW BERN SHOP  
 nick.etherdridge@jamesriverequipment.com; canastasio@wearcheckusa.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)

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F: