



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

Area

**[05W46516]**

Machine Id

**JOHN DEERE 350P 1FF350PALPF000489**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (28 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0214354</b>	JR0202978	JR0192225
Sample Date		Client Info		<b>10 May 2024</b>	22 Feb 2024	25 Oct 2023
Machine Age	hrs	Client Info		<b>2020</b>	1493	941
Oil Age	hrs	Client Info		<b>527</b>	552	472
Filter Age	hrs	Client Info		<b>527</b>	552	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>34</b>	37	32
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	2
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	5	7
Lead	ppm	ASTM D5185m	>26	<b>2</b>	2	1
Copper	ppm	ASTM D5185m	>26	<b>6</b>	14	39
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

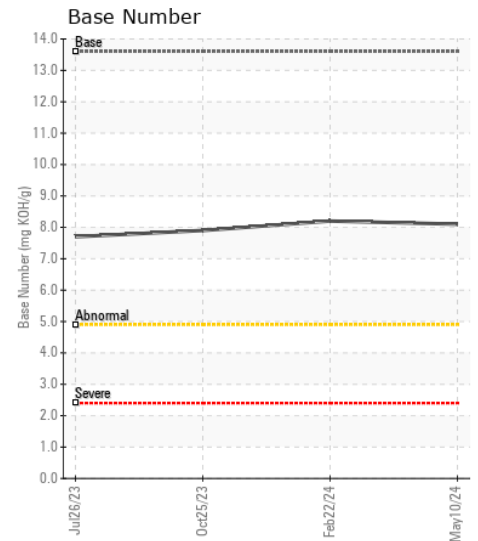
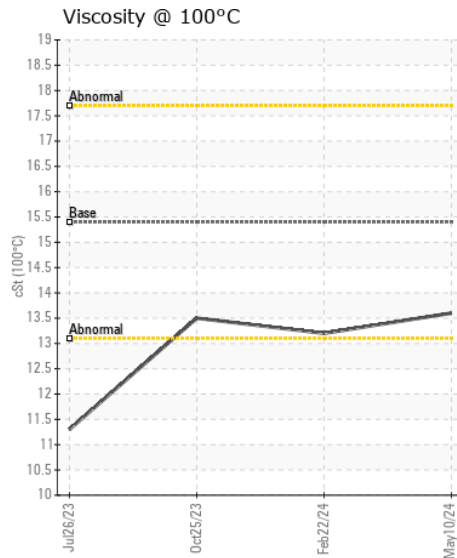
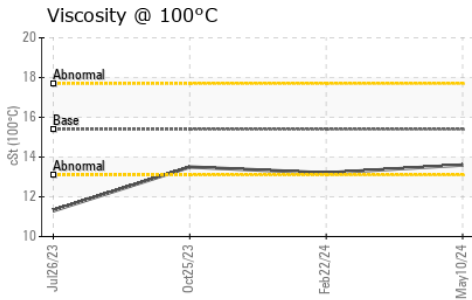
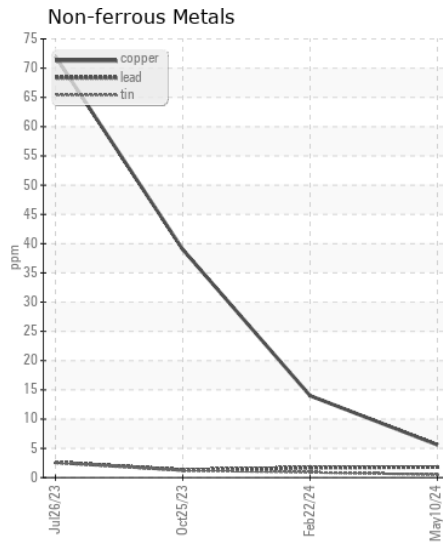
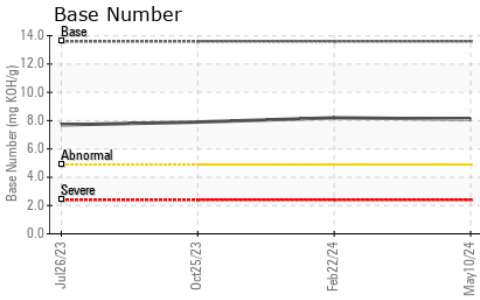
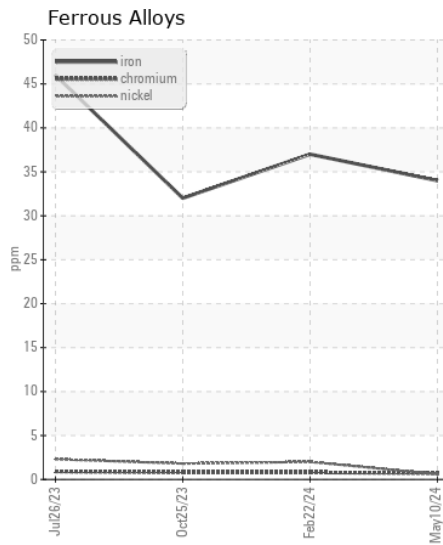
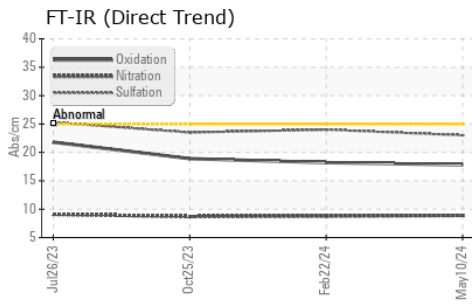
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>8</b>	9	10
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	4
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.9</b>	8.8	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.0</b>	24.0	23.5
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>2</b>	2	3
Boron	ppm	ASTM D5185m		<b>181</b>	158	190
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>240</b>	218	258
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>840</b>	784	794
Calcium	ppm	ASTM D5185m		<b>1563</b>	1774	1376
Phosphorus	ppm	ASTM D5185m		<b>899</b>	895	942
Zinc	ppm	ASTM D5185m		<b>1094</b>	1097	1061
Sulfur	ppm	ASTM D5185m		<b>3430</b>	3015	3206
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.8</b>	18.2	18.9
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.1</b>	8.2	7.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.6</b>	13.2	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0214354 **Received** : 13 May 2024  
**Lab Number** : **06177006** **Tested** : 14 May 2024  
**Unique Number** : 11023059 **Diagnosed** : 14 May 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

**B & S SITE DEVELOPMENT**  
 7800 PINEY BRANCH LANE  
 BRISTOW, VA  
 US 20136  
 Contact: DANNY HUFF  
 dhuff@bandssite.com  
 T: (540)270-3203  
 F: (703)753-0605

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)