



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

Machine Id  
**JOHN DEERE 744P 1dw744pavpll06872**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (30 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0214051</b>	JR0208768	JR0193946
Sample Date		Client Info		<b>20 Jun 2024</b>	18 Mar 2024	11 Jan 2024
Machine Age	hrs	Client Info		<b>1967</b>	1450	1103
Oil Age	hrs	Client Info		<b>517</b>	347	1103
Filter Age	hrs	Client Info		<b>0</b>	0	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>30</b>	30	38
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	2
Nickel	ppm	ASTM D5185m	>5	<b>5</b>	8	9
Titanium	ppm	ASTM D5185m		<b>1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>3</b>	3	5
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	0	2
Copper	ppm	ASTM D5185m	>26	<b>3</b>	3	14
Tin	ppm	ASTM D5185m	>4	<b>0</b>	0	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

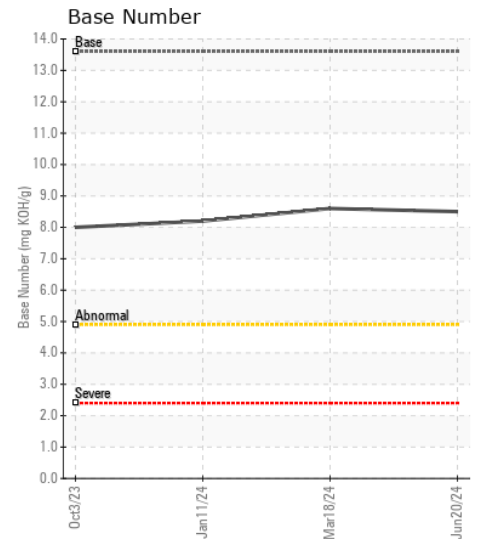
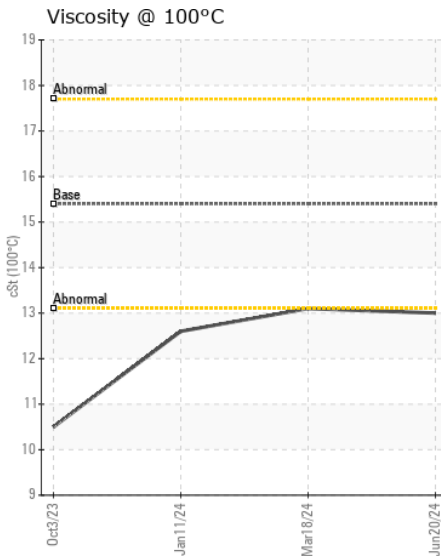
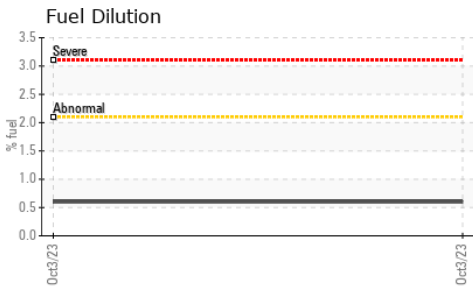
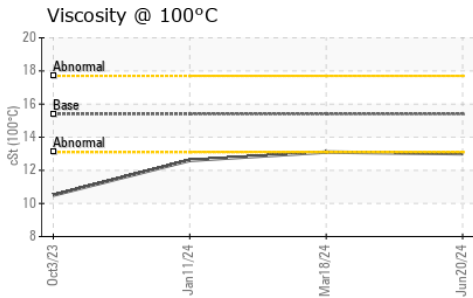
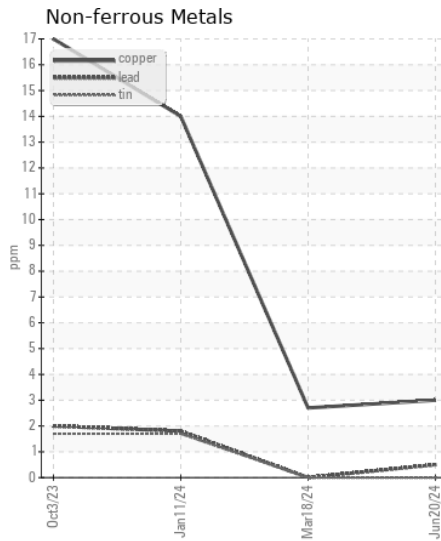
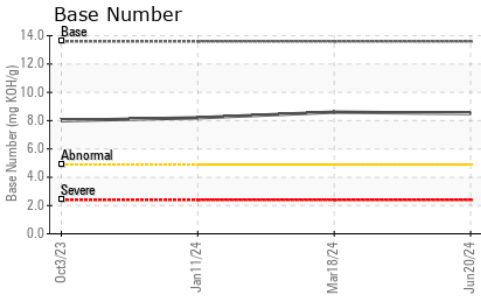
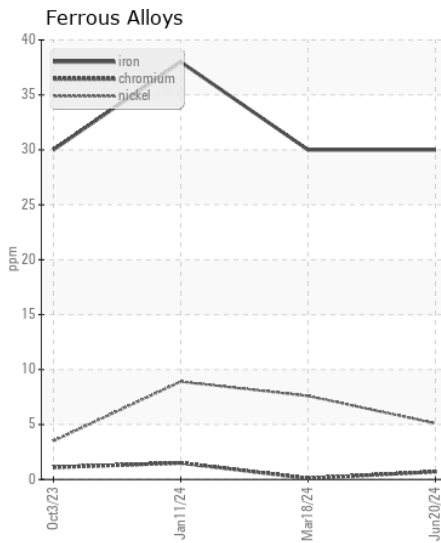
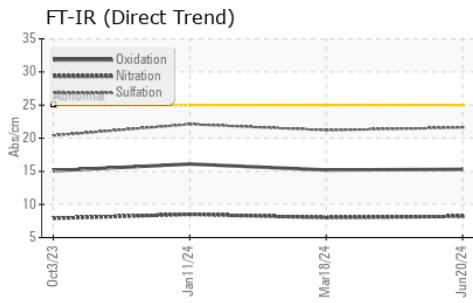
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>6</b>	7	11
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	29	3
Fuel	%	ASTM D3524	>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>0.4</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.2</b>	8.0	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.6</b>	21.2	22.1
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>	10	0
Boron	ppm	ASTM D5185m		<b>192</b>	215	239
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	4
Molybdenum	ppm	ASTM D5185m		<b>247</b>	247	272
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>839</b>	833	829
Calcium	ppm	ASTM D5185m		<b>1614</b>	1481	1465
Phosphorus	ppm	ASTM D5185m		<b>990</b>	954	935
Zinc	ppm	ASTM D5185m		<b>1193</b>	1140	1138
Sulfur	ppm	ASTM D5185m		<b>3657</b>	3691	3302
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.3</b>	15.2	16.1
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.5</b>	8.6	8.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.0</b>	13.1	12.6



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0214051 **Received** : 24 Jun 2024  
**Lab Number** : 06217990 **Tested** : 25 Jun 2024  
**Unique Number** : 11096187 **Diagnosed** : 25 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: FuelDilution, PercentFuel, TBN )

**JRE - GREENVILLE**  
 3604 HIGHWAY 264 E  
 GREENVILLE, NC  
 US 27834-5800

Contact: GREENVILLE SHOP  
 christopher.martin@jamesriverequipment.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: