



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

Machine Id  
**JOHN DEERE 544 P 1DW544PAAMLZ12726**

Component  
**Diesel Engine**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0194391</b>	JR0158190	JR0133452
Sample Date		Client Info		<b>11 Jan 2024</b>	11 May 2023	29 Jun 2022
Machine Age	hrs	Client Info		<b>2582</b>	1969	884
Oil Age	hrs	Client Info		<b>0</b>	0	884
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>17</b>	26	6
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	1	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	4	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>4</b>	6	2
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	2	0
Copper	ppm	ASTM D5185m	>26	<b>7</b>	▲ 44	21
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

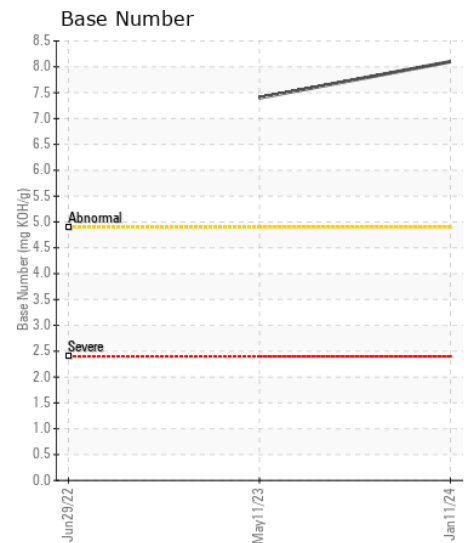
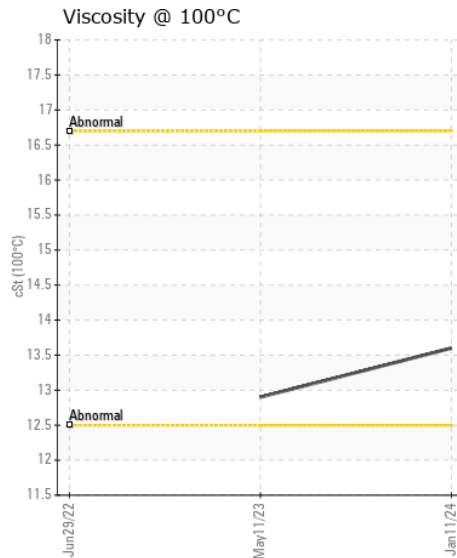
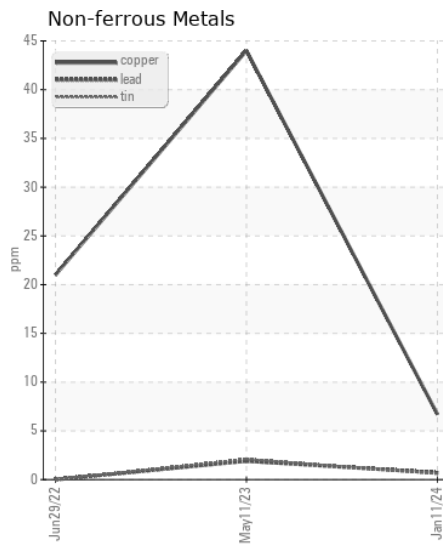
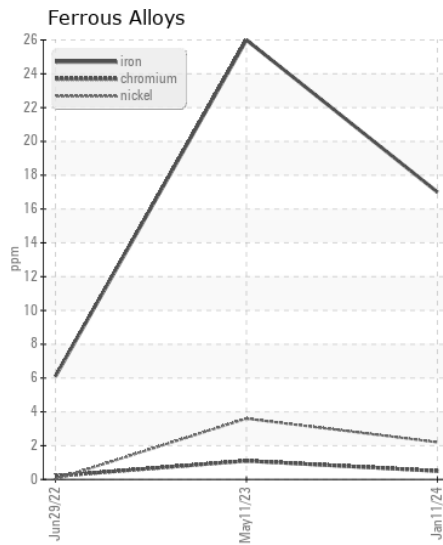
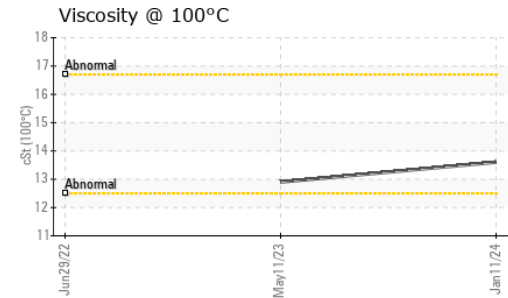
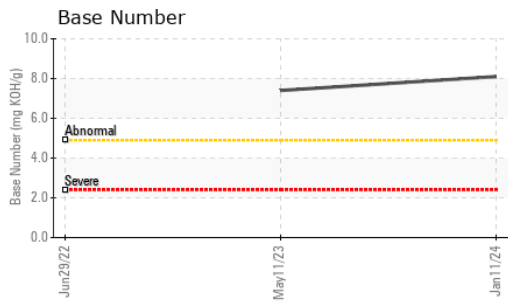
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	10	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	2
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>0.4</b>	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.1</b>	10.1	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.9</b>	25.5	---
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>0</b>	4	<1
Boron	ppm	ASTM D5185m		<b>248</b>	132	277
Barium	ppm	ASTM D5185m		<b>3</b>	0	2
Molybdenum	ppm	ASTM D5185m		<b>262</b>	253	246
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>827</b>	885	789
Calcium	ppm	ASTM D5185m		<b>1432</b>	1477	1428
Phosphorus	ppm	ASTM D5185m		<b>904</b>	869	886
Zinc	ppm	ASTM D5185m		<b>1090</b>	1109	1092
Sulfur	ppm	ASTM D5185m		<b>3270</b>	3577	3472
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.2</b>	21.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.1</b>	7.4	---
Visc @ 100°C	cSt	ASTM D445		<b>13.6</b>	12.9	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0194391 **Received** : 12 Jan 2024  
**Lab Number** : 06059148 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10830530 **Diagnostician** : Wes Davis  
**Test Package** : CONST ( Additional Tests: TBN )

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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