



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

Area

**[W49707]**

Machine Id

**JOHN DEERE 260E 1DW260ETJHF679411**

Component

**Diesel Engine**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (9 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0180922</b>	JR0164966	JR0088958
Sample Date		Client Info		<b>08 Feb 2024</b>	19 Jun 2023	10 Jun 2021
Machine Age	hrs	Client Info		<b>6090</b>	5670	3457
Oil Age	hrs	Client Info		<b>0</b>	0	120
Filter Age	hrs	Client Info		<b>0</b>	0	120
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>3</b>	21	22
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>2</b>	2	0
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>26	<b>0</b>	<1	8
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
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

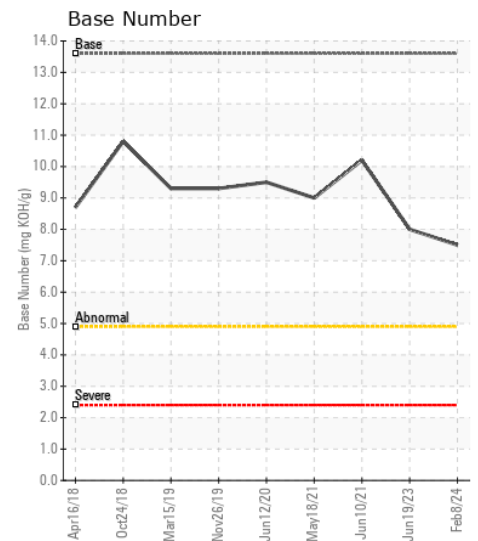
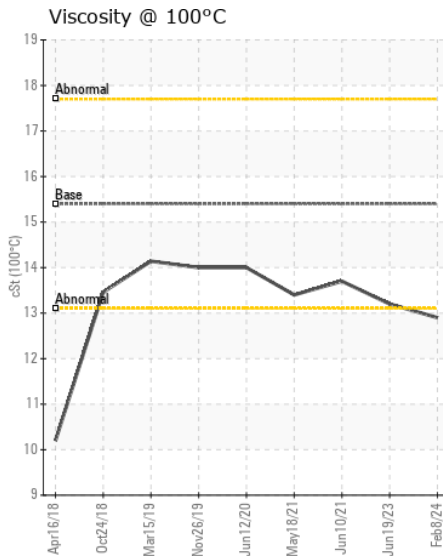
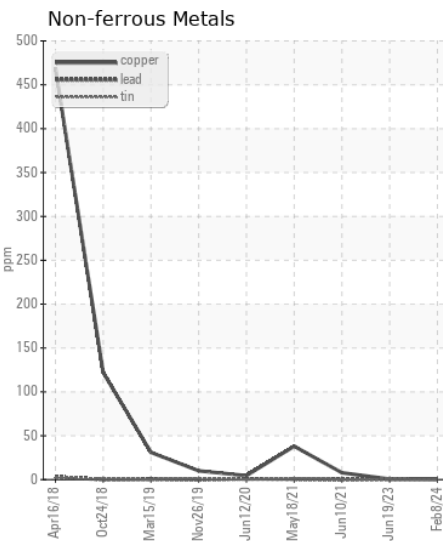
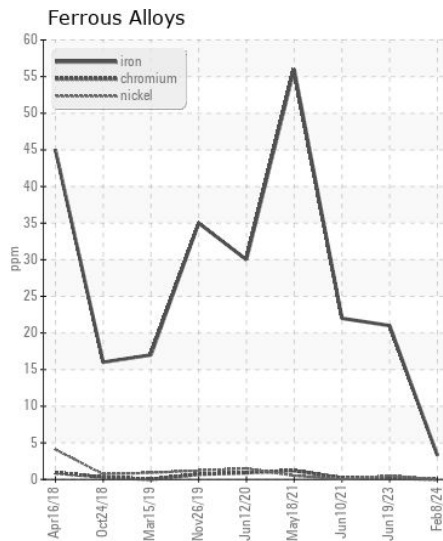
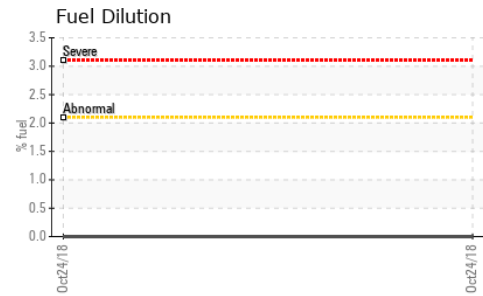
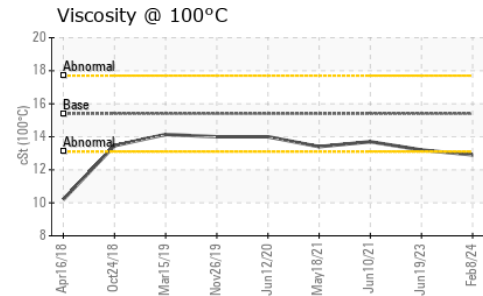
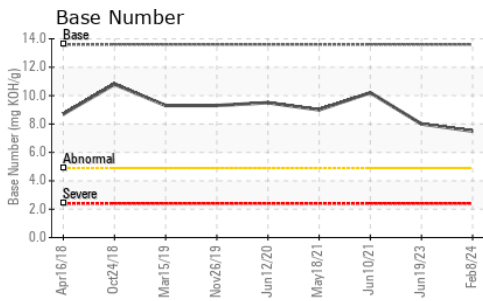
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>&lt;1</b>	4	8
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	1
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>0.1</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>4.5</b>	5.4	8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.4</b>	19.3	22.5
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>&lt;1</b>	0	3
Boron	ppm	ASTM D5185m		<b>280</b>	408	242
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>98</b>	85	248
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>457</b>	459	776
Calcium	ppm	ASTM D5185m		<b>1093</b>	1324	1371
Phosphorus	ppm	ASTM D5185m		<b>864</b>	1025	897
Zinc	ppm	ASTM D5185m		<b>1042</b>	1182	961
Sulfur	ppm	ASTM D5185m		<b>2788</b>	3315	2581
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>12.7</b>	13.1	17
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>7.5</b>	8.0	10.2
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.9</b>	13.2	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0180922 **Received** : 09 Feb 2024  
**Lab Number** : 06084655 **Tested** : 12 Feb 2024  
**Unique Number** : 10872100 **Diagnosed** : 12 Feb 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: FuelDilution, 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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