



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



Machine Id  
**JOHN DEERE 624K 1DW624KZVGF678340**  
Component  
**Diesel Engine**  
Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (20 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0208209</b>	JR0184778	JR0159715
Sample Date		Client Info		<b>16 Apr 2024</b>	06 Oct 2023	17 Mar 2023
Machine Age	hrs	Client Info		<b>8973</b>	8529	8027
Oil Age	hrs	Client Info		<b>8529</b>	0	0
Filter Age	hrs	Client Info		<b>8529</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	MARGINAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>22</b>	18	20
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>5</b>	4	3
Lead	ppm	ASTM D5185m	>26	<b>2</b>	<1	0
Copper	ppm	ASTM D5185m	>26	<b>2</b>	<1	2
Tin	ppm	ASTM D5185m	>4	<b>1</b>	<1	<1
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

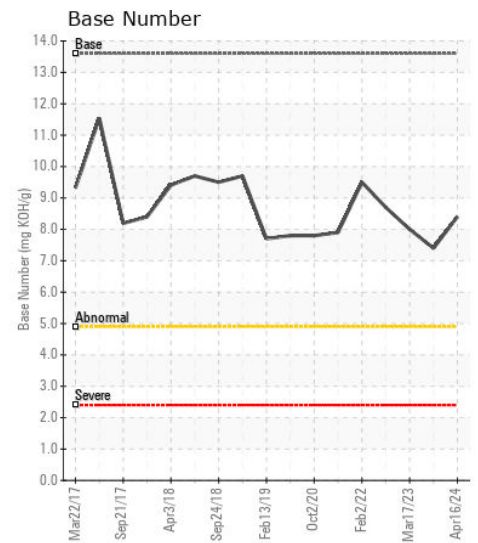
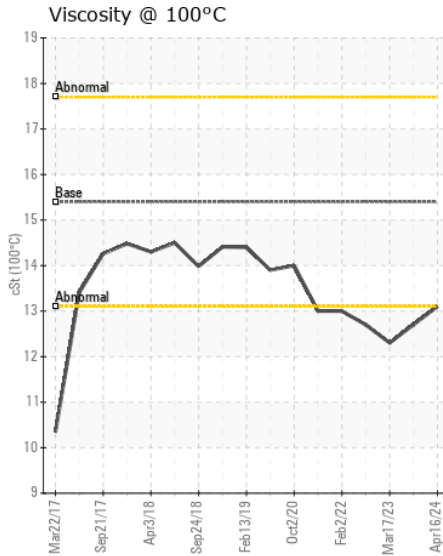
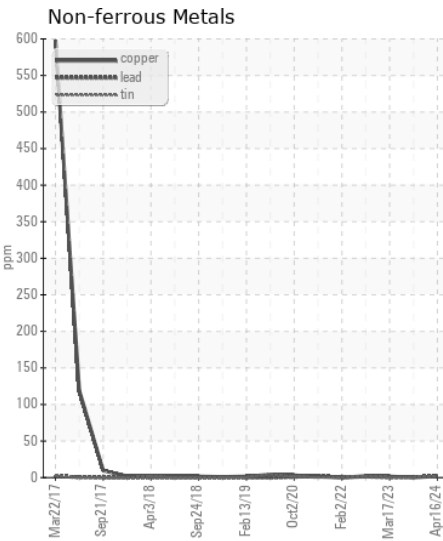
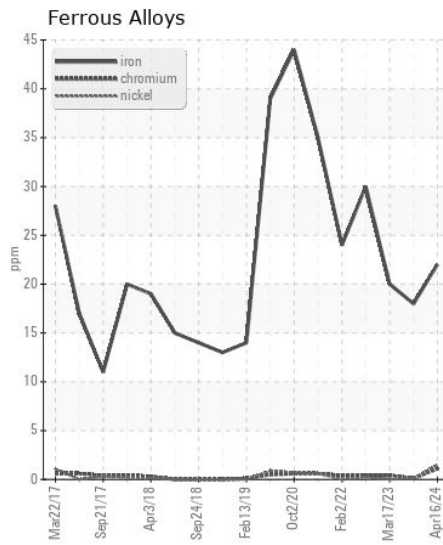
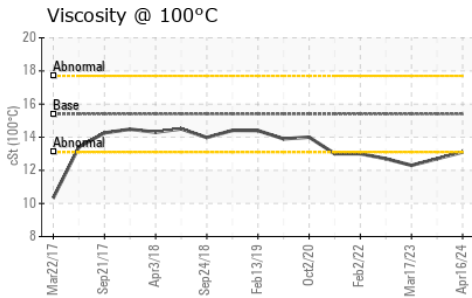
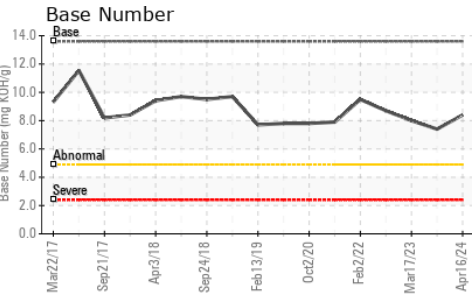
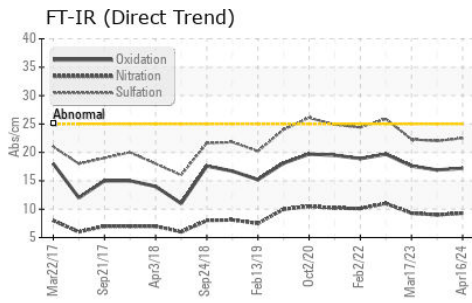
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>8</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	▲ 4.3
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>9.3</b>	9.0	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.5</b>	22.0	22.3
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>3</b>	1	3
Boron	ppm	ASTM D5185m		<b>251</b>	221	199
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>244</b>	250	228
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>769</b>	853	797
Calcium	ppm	ASTM D5185m		<b>1380</b>	1442	1440
Phosphorus	ppm	ASTM D5185m		<b>960</b>	894	852
Zinc	ppm	ASTM D5185m		<b>1058</b>	1101	1069
Sulfur	ppm	ASTM D5185m		<b>3419</b>	3096	3162
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.2</b>	16.9	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.4</b>	7.4	8.0
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.1</b>	12.7	▲ 12.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0208209 **Received** : 18 Apr 2024  
**Lab Number** : 06152898 **Tested** : 19 Apr 2024  
**Unique Number** : 10982976 **Diagnosed** : 19 Apr 2024 - 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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