



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



Area  
**[05W46607]**  
 Machine Id  
**JOHN DEERE 850K 1T0850KXKLF369647**  
 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>JR0214383</b>	JR0192000	JR0169087
Sample Date		Client Info		<b>10 May 2024</b>	20 Nov 2023	12 Apr 2023
Machine Age	hrs	Client Info		<b>5467</b>	4980	4443
Oil Age	hrs	Client Info		<b>487</b>	537	477
Filter Age	hrs	Client Info		<b>487</b>	537	477
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>31</b>	32	18
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>3</b>	3	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>	5	<1
Lead	ppm	ASTM D5185m	>26	<b>1</b>	1	0
Copper	ppm	ASTM D5185m	>26	<b>1</b>	2	4
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	0
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

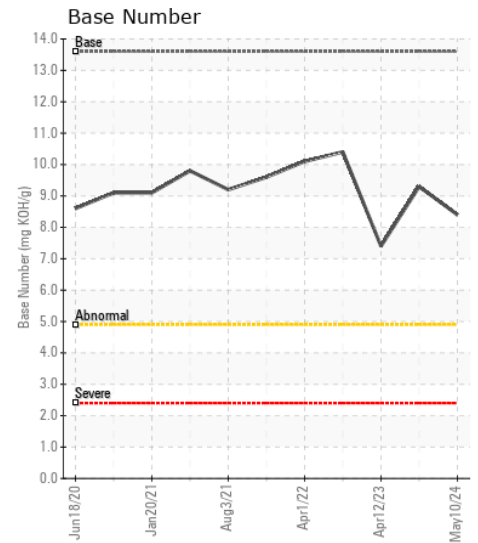
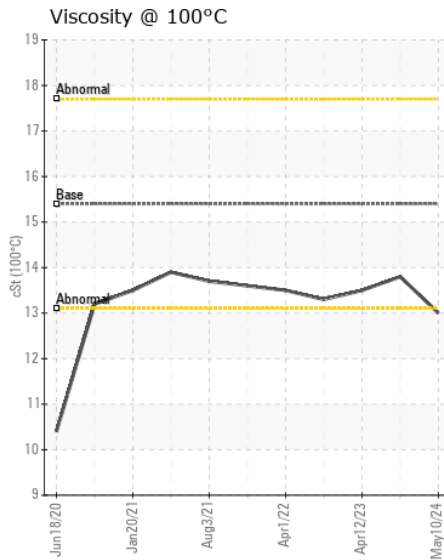
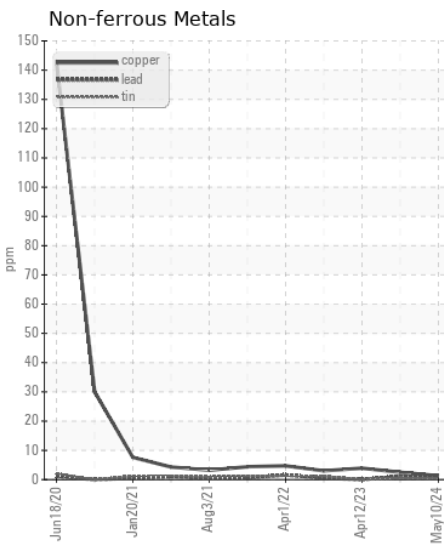
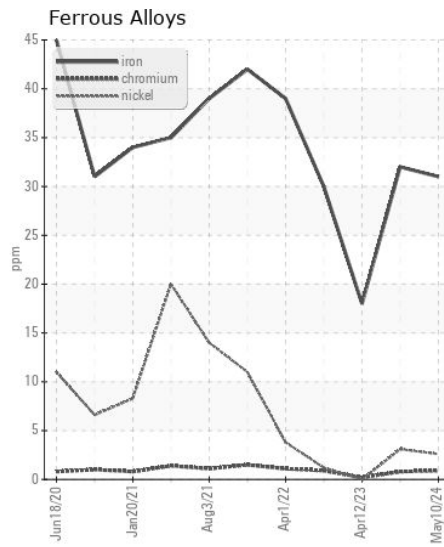
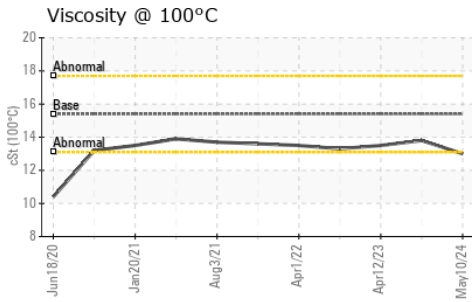
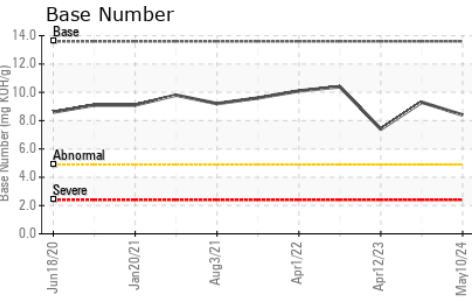
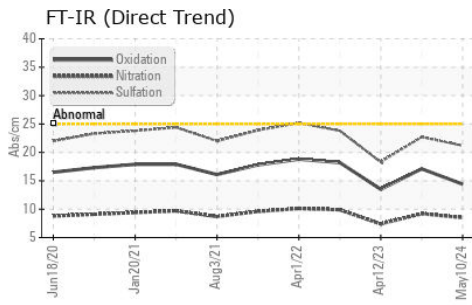
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>9</b>	10	4
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
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>0.5</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	9.2	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.2</b>	22.7	18.3
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>2</b>	3	4
Boron	ppm	ASTM D5185m		<b>112</b>	189	30
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>160</b>	247	66
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>582</b>	810	900
Calcium	ppm	ASTM D5185m		<b>2049</b>	1497	1146
Phosphorus	ppm	ASTM D5185m		<b>978</b>	813	1031
Zinc	ppm	ASTM D5185m		<b>1189</b>	1092	1226
Sulfur	ppm	ASTM D5185m		<b>3750</b>	2898	3963
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.4</b>	17.1	13.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.4</b>	9.3	7.4
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.0</b>	13.8	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0214383 **Received** : 13 May 2024  
**Lab Number** : 06177004 **Tested** : 14 May 2024  
**Unique Number** : 11023057 **Diagnosed** : 14 May 2024 - Don Baldrige  
**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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