



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



Machine Id  
**JOHN DEERE 755K 1T0755KXCMF404735**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (29 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0199468</b>	JR0190031	JR0154244
Sample Date		Client Info		<b>08 Feb 2024</b>	23 Oct 2023	29 Dec 2022
Machine Age	hrs	Client Info		<b>2929</b>	2460	1515
Oil Age	hrs	Client Info		<b>500</b>	945	1515
Filter Age	hrs	Client Info		<b>500</b>	0	1515
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>26</b>	29	21
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>	2	2
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>26	<b>6</b>	3	7
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

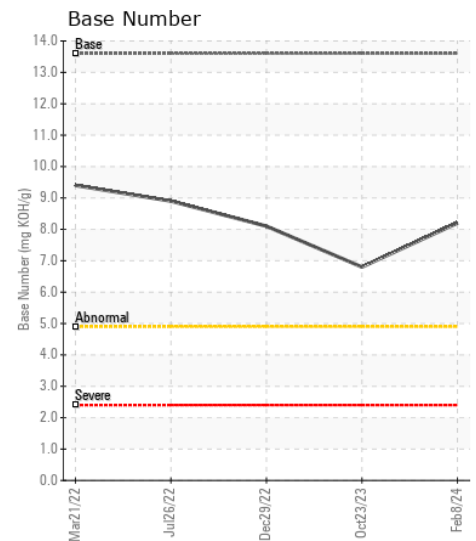
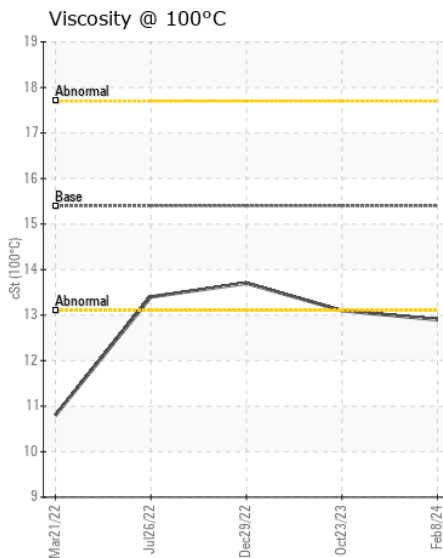
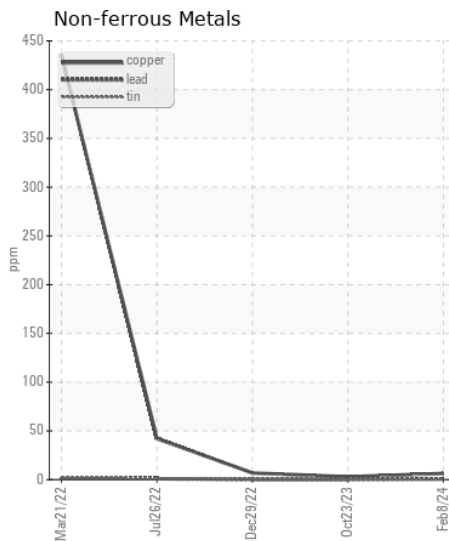
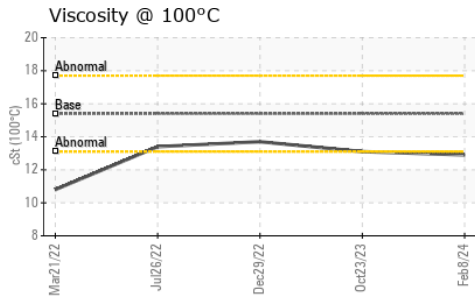
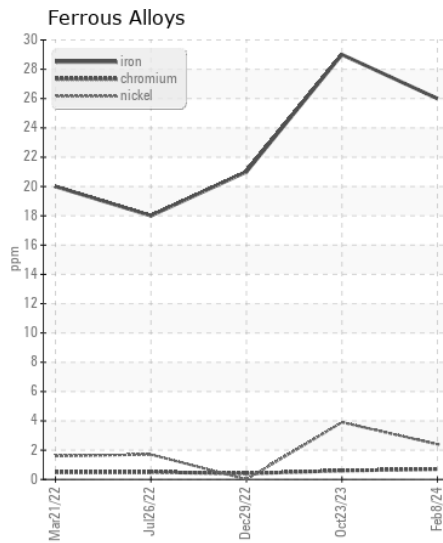
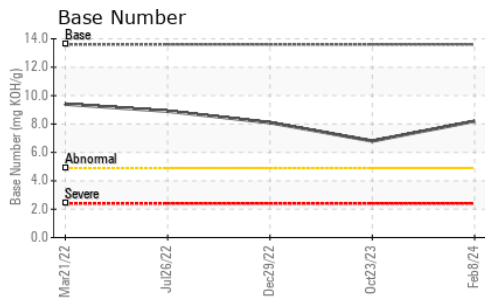
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>8</b>	11	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	6	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>0.2</b>	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.7</b>	8.3	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.5</b>	20.3	23.0
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	2
Boron	ppm	ASTM D5185m		<b>173</b>	80	94
Barium	ppm	ASTM D5185m		<b>0</b>	3	0
Molybdenum	ppm	ASTM D5185m		<b>165</b>	52	231
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>588</b>	251	685
Calcium	ppm	ASTM D5185m		<b>1839</b>	1974	1660
Phosphorus	ppm	ASTM D5185m		<b>1008</b>	1007	901
Zinc	ppm	ASTM D5185m		<b>1194</b>	1197	1114
Sulfur	ppm	ASTM D5185m		<b>3284</b>	3780	3305
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.2</b>	16.1	17.7
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>8.2</b>	6.8	8.1
Visc @ 100°C	cSt	ASTM D445	15.4	<b>12.9</b>	13.1	13.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0199468  
**Lab Number** : 06099027  
**Unique Number** : 10897257  
**Test Package** : CONST ( Additional Tests: TBN )

**TOTAL DEVELOPMENT SOLUTIONS LLC**  
 7805 PROGRESS CT  
 GAINESVILLE, VA  
 US 20155  
 Contact: JOE SEALE

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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