



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

Area  
**[W20636-BRIDGEFORTH]**  
 Machine Id  
**JOHN DEERE 4038R 1N04038RPHB184008**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0190489</b>	JR0082042	---
Sample Date		Client Info		<b>24 Jan 2024</b>	19 Mar 2021	---
Machine Age	hrs	Client Info		<b>1134</b>	613	---
Oil Age	hrs	Client Info		<b>100</b>	200	---
Filter Age	hrs	Client Info		<b>100</b>	200	---
Oil Changed		Client Info		<b>Not Changd</b>	Changed	---
Filter Changed		Client Info		<b>Not Changd</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>39</b>	58	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>31	<b>10</b>	6	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	3	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

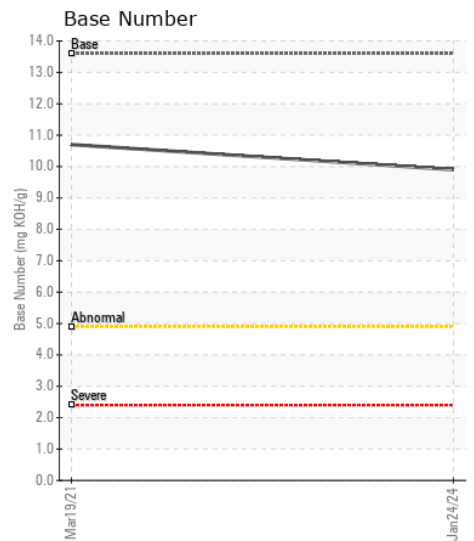
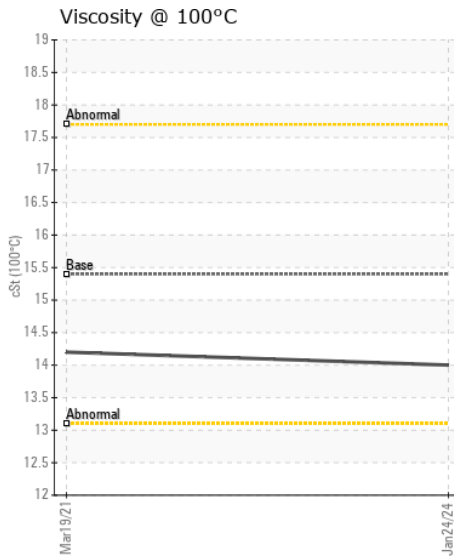
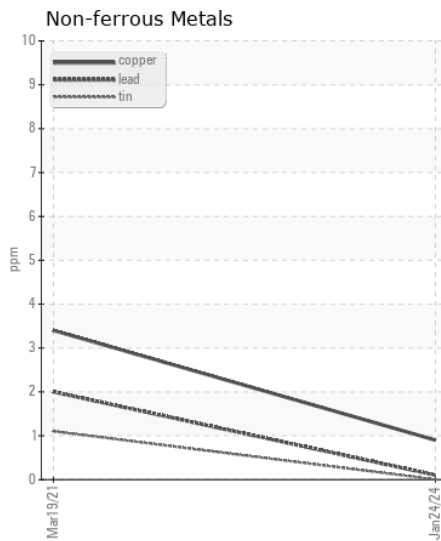
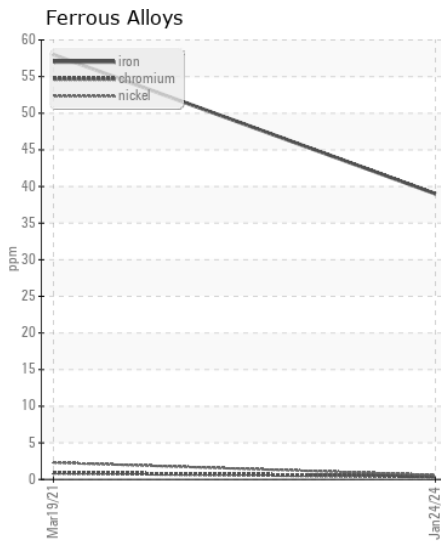
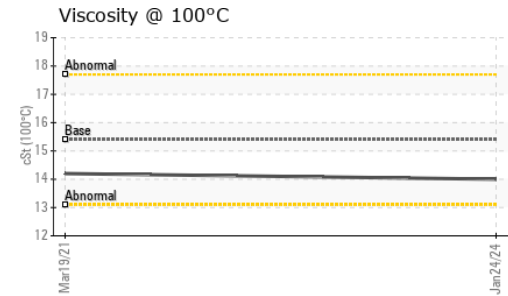
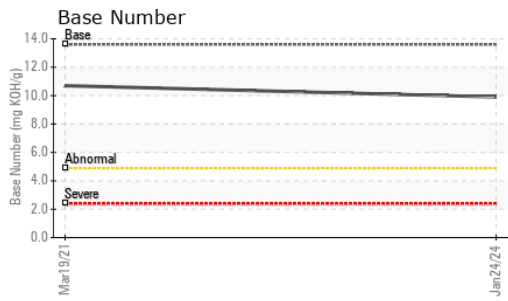
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>5</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	9	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.9</b>	8.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	22.7	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	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>	3	---
Boron	ppm	ASTM D5185m		<b>261</b>	273	---
Barium	ppm	ASTM D5185m		<b>1</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>265</b>	267	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>780</b>	843	---
Calcium	ppm	ASTM D5185m		<b>1360</b>	1454	---
Phosphorus	ppm	ASTM D5185m		<b>897</b>	944	---
Zinc	ppm	ASTM D5185m		<b>1060</b>	1108	---
Sulfur	ppm	ASTM D5185m		<b>3067</b>	2897	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.5</b>	17	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.9</b>	10.7	---
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.0</b>	14.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0190489 **Received** : 01 Feb 2024  
**Lab Number** : 06077558 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10859649 **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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