



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

Machine Id  
**JOHN DEERE 3025E L142288**

Component  
**Diesel Engine**

Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0200836</b>	---	---
Sample Date		Client Info		<b>17 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>384</b>	---	---
Oil Age	hrs	Client Info		<b>384</b>	---	---
Filter Age	hrs	Client Info		<b>384</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>ATTENTION</b>	---	---

### WEAR

All component wear rates are normal.

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

### CONTAMINATION

There is no indication of any contamination in the oil.

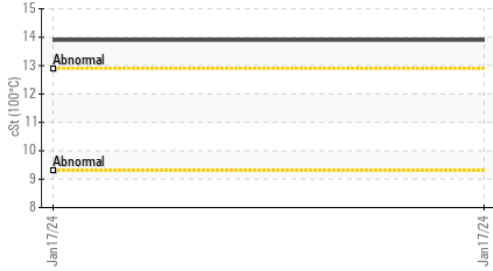
Silicon	ppm	ASTM D5185m	>22	<b>6</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.21	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	---	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.9</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.0</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	---	---

### FLUID CONDITION

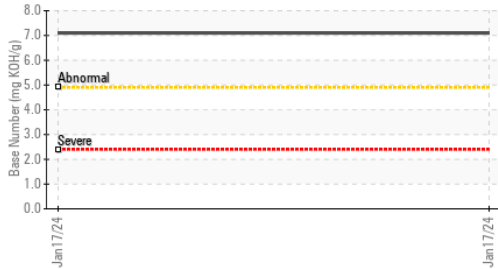
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Sodium	ppm	ASTM D5185m	>31	<b>3</b>	---	---
Boron	ppm	ASTM D5185m		<b>182</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>14</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>119</b>	---	---
Calcium	ppm	ASTM D5185m		<b>2054</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>1071</b>	---	---
Zinc	ppm	ASTM D5185m		<b>1273</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3818</b>	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.1</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>▲ 13.9</b>	---	---

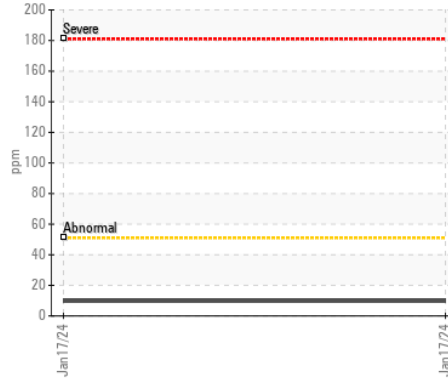
▲ Viscosity @ 100°C



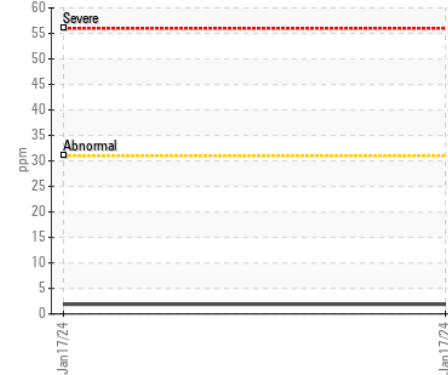
Base Number



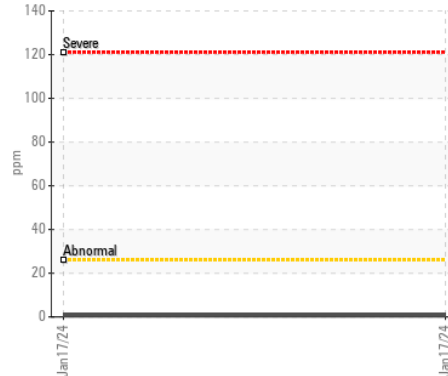
Iron (ppm)



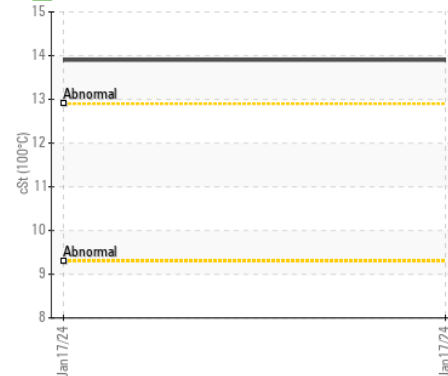
Aluminum (ppm)



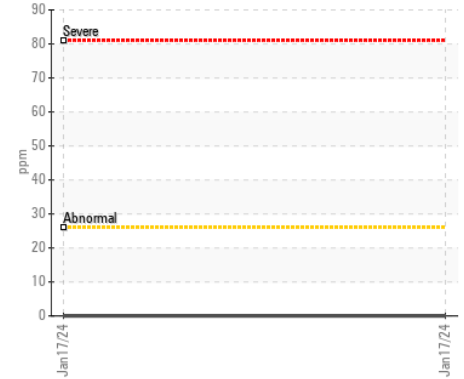
Copper (ppm)



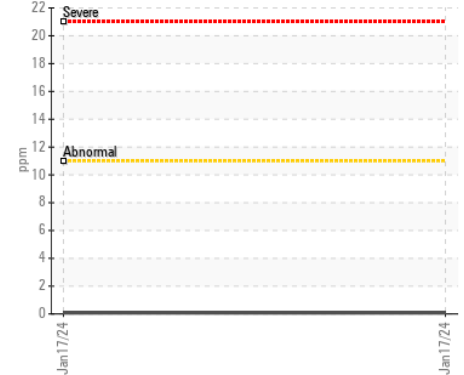
▲ Viscosity @ 100°C



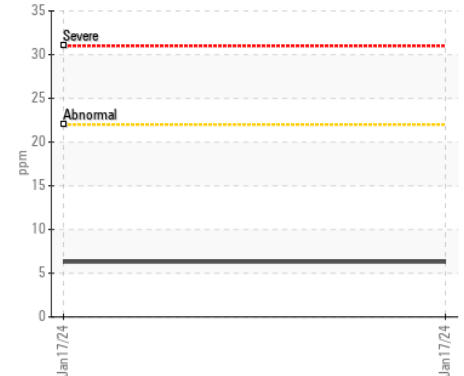
Lead (ppm)



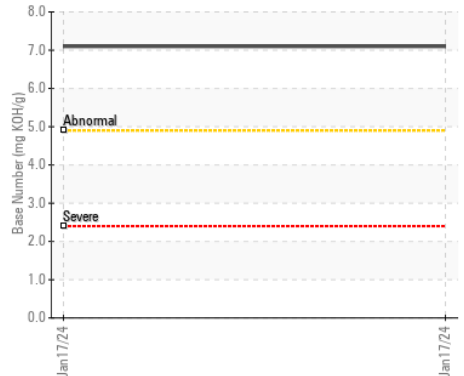
Chromium (ppm)



Silicon (ppm)



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200836 **Received** : 19 Jan 2024  
**Lab Number** : 06065421 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836803 **Diagnostician** : Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: TBN )

**JRE - SHELBY**  
 703 N POST RD  
 SHELBY, NC  
 US 28150  
 Contact: RON JAMES

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)

T: (704)434-2226

F: