



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

Area  
**[RONNIE VINEGARD]**  
 Machine Id  
**JOHN DEERE 3025E 1LV3025EAGH100963**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (4 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0169348</b>	JR0151983	JR0112487
Sample Date		Client Info		<b>19 Jan 2024</b>	18 Jan 2023	02 Feb 2022
Machine Age	hrs	Client Info		<b>533</b>	404	298
Oil Age	hrs	Client Info		<b>129</b>	116	76
Filter Age	hrs	Client Info		<b>129</b>	116	76
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

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>51	<b>9</b>	14	10
Chromium	ppm	ASTM D5185m	>11	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	3	3
Lead	ppm	ASTM D5185m	>26	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>26	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

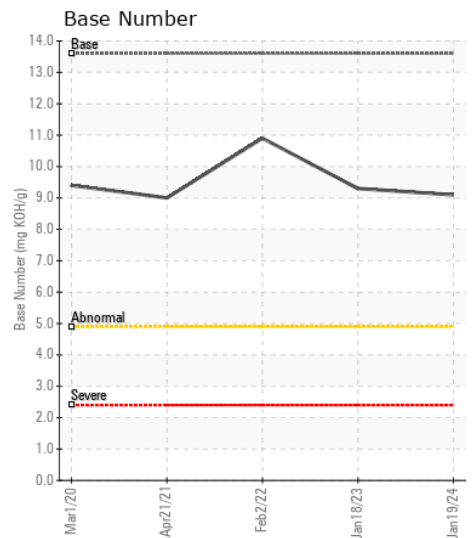
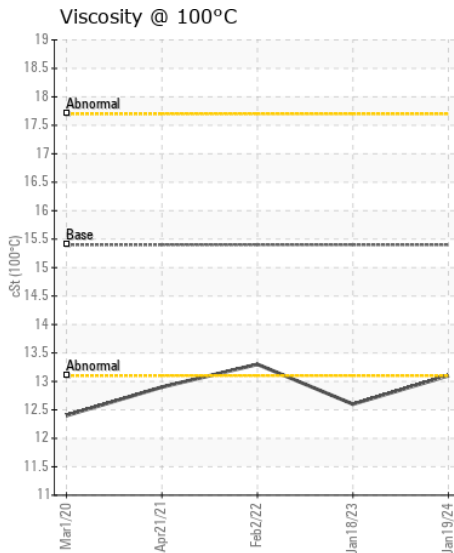
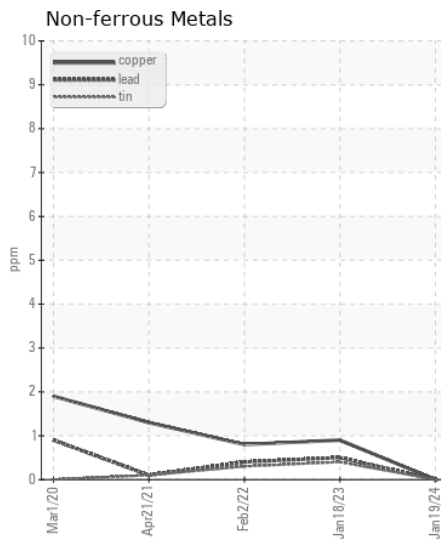
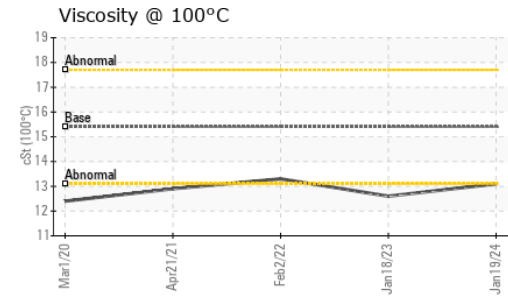
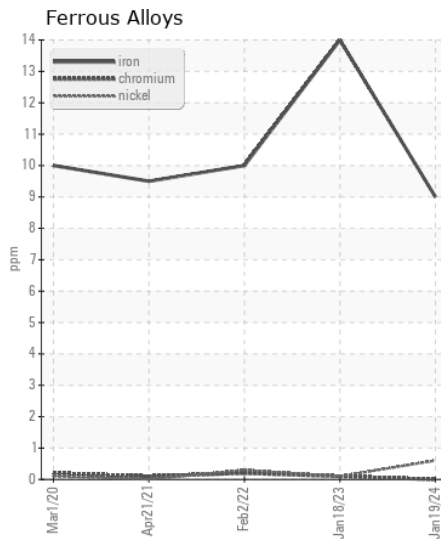
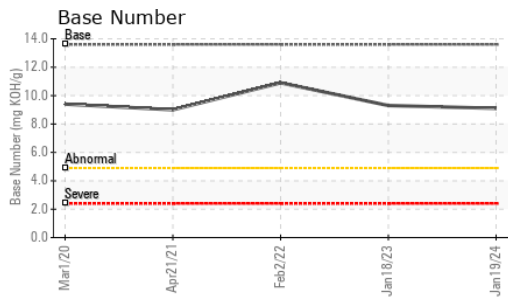
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>7</b>	9	9
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	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>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.6</b>	8.3	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.4</b>	20.2	21.5
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>	2	2
Boron	ppm	ASTM D5185m		<b>279</b>	267	270
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>243</b>	248	253
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>808</b>	800	908
Calcium	ppm	ASTM D5185m		<b>1363</b>	1423	1576
Phosphorus	ppm	ASTM D5185m		<b>873</b>	871	992
Zinc	ppm	ASTM D5185m		<b>1059</b>	1076	1080
Sulfur	ppm	ASTM D5185m		<b>2892</b>	3551	2902
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.9</b>	15.6	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.1</b>	9.3	10.9
Visc @ 100°C	cSt	ASTM D445	15.4	<b>13.1</b>	12.6	13.3



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0169348 **Received** : 30 Jan 2024  
**Lab Number** : 06074347 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856438 **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)

**JRE - EDINBURG**  
 601 NORTH MAIN ST  
 WOODSTOCK, VA  
 US 22664

Contact: MIKE SECHLER  
 MSECHLER@JAMESRIVEREQUIPMENT.COM

T:  
 F: