



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

Area  
**[W20991-BRYAN]**  
 Machine Id  
**JOHN DEERE 3038E 1LV3038EKJJ122957**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)**

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0204471</b>	JR0159122	JR0023411
Sample Date		Client Info		<b>02 Feb 2024</b>	23 Jan 2023	06 Jan 2020
Machine Age	hrs	Client Info		<b>214</b>	150	53
Oil Age	hrs	Client Info		<b>0</b>	0	53
Filter Age	hrs	Client Info		<b>0</b>	0	53
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

The iron level is abnormal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
Iron	ppm	ASTM D5185m	>20	<b>▲ 52</b>	▲ 51	▲ 26
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>2</b>	2	<1
Aluminum	ppm	ASTM D5185m	>10	<b>4</b>	4	4
Lead	ppm	ASTM D5185m	>10	<b>4</b>	3	2
Copper	ppm	ASTM D5185m	>75	<b>51</b>	54	26
Tin	ppm	ASTM D5185m	>10	<b>2</b>	2	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

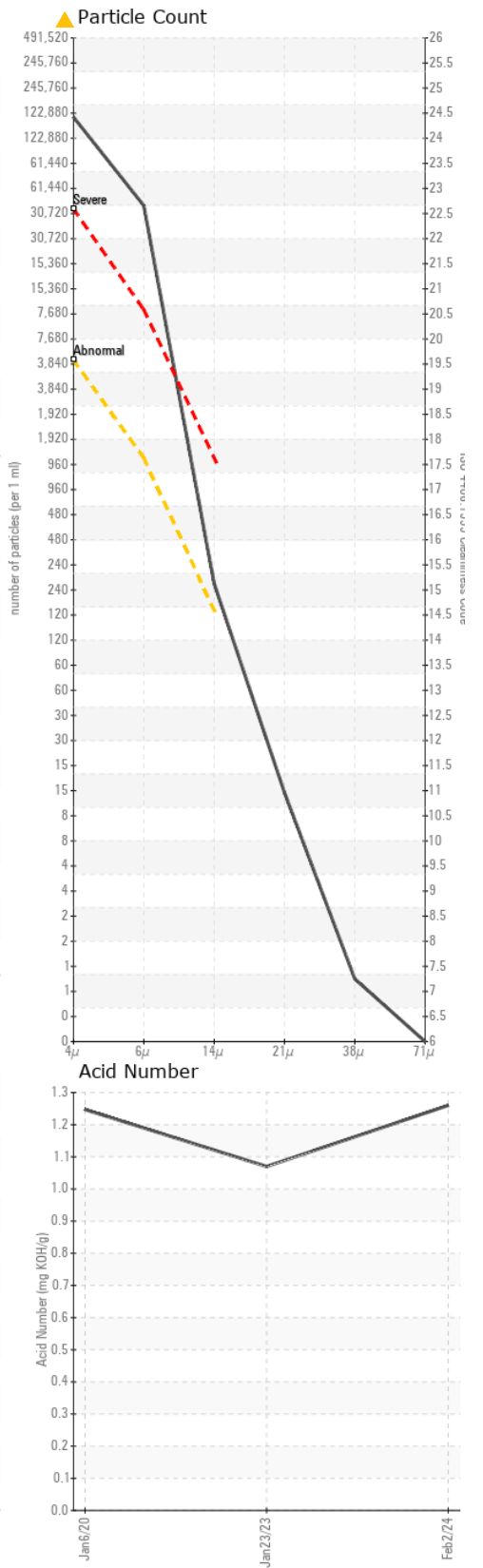
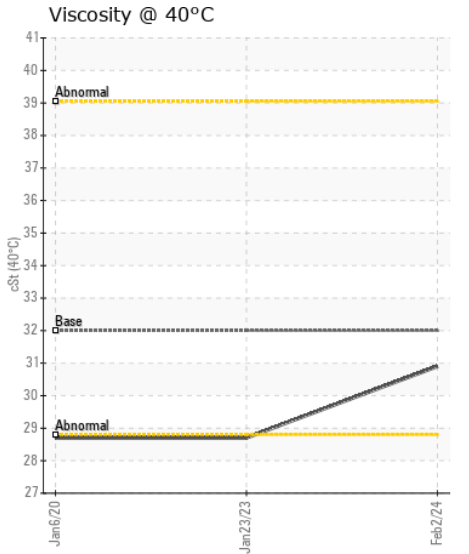
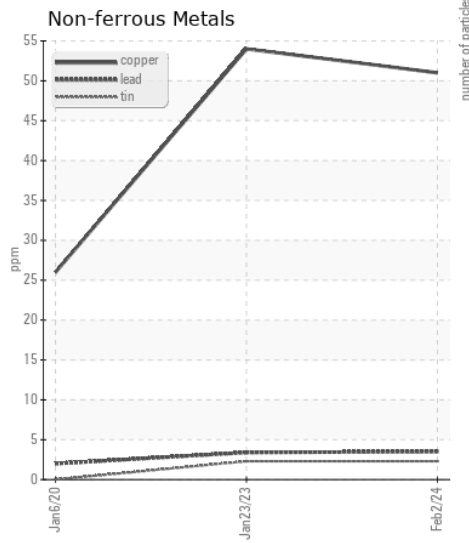
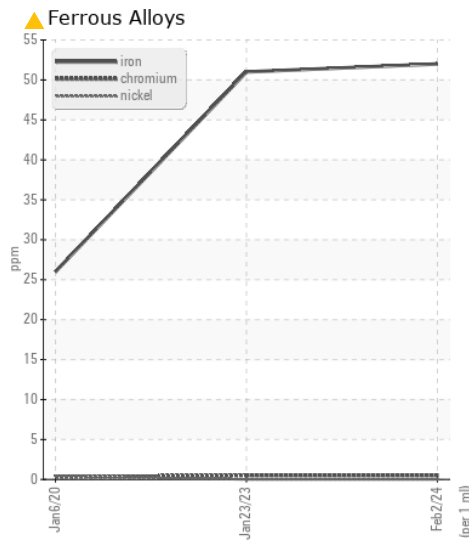
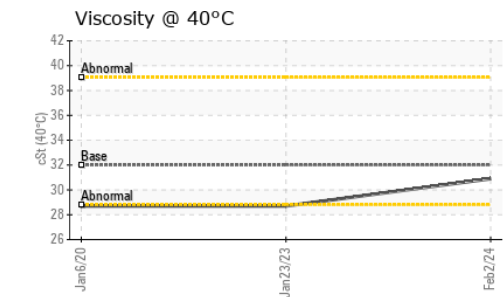
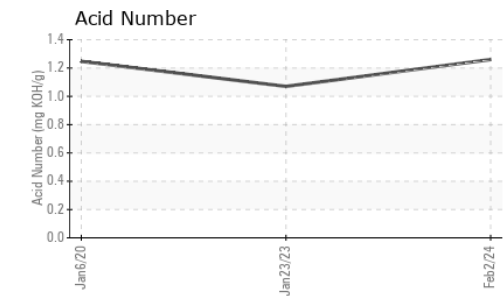
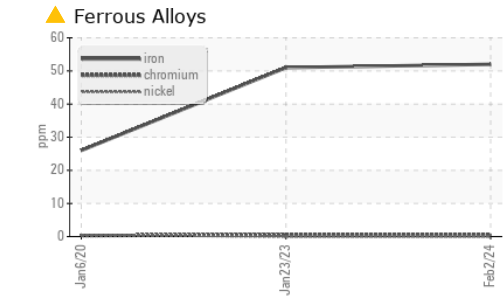
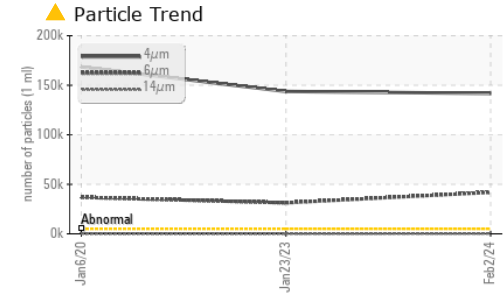
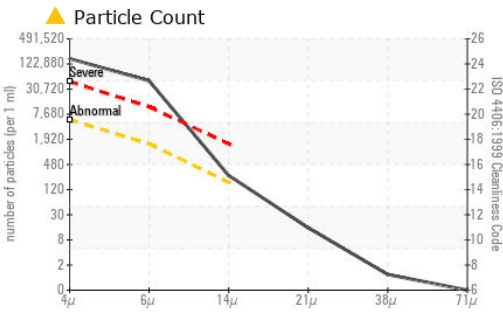
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>10</b>	12	12
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	7
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 141718</b>	▲ 143715	▲ 168536
Particles >6µm		ASTM D7647	>1300	<b>▲ 41895</b>	▲ 31291	▲ 36872
Particles >14µm		ASTM D7647	>160	<b>▲ 231</b>	81	69
Particles >21µm		ASTM D7647	>40	<b>13</b>	9	8
Particles >38µm		ASTM D7647	>10	<b>1</b>	1	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 24/23/15</b>	▲ 24/22/14	▲ 25/22/13
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	>0.1	<b>NEG</b>	NEG	0.2%

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>5</b>	5	5
Boron	ppm	ASTM D5185m		<b>2</b>	2	3
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>94</b>	101	97
Calcium	ppm	ASTM D5185m		<b>3218</b>	3727	3564
Phosphorus	ppm	ASTM D5185m		<b>928</b>	1084	1001
Zinc	ppm	ASTM D5185m		<b>1255</b>	1339	1274
Sulfur	ppm	ASTM D5185m		<b>3547</b>	4399	2942
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.26</b>	1.07	1.247
Visc @ 40°C	cSt	ASTM D445	32	<b>30.9</b>	28.7	28.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0204471 **Received** : 09 Feb 2024  
**Lab Number** : 06085357 **Tested** : 12 Feb 2024  
**Unique Number** : 10872802 **Diagnosed** : 12 Feb 2024 - Doug Bogart  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - BURKEVILLE**  
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Certificate L2367  
 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)