



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

Machine Id  
**JOHN DEERE 3032E 1LV3032EPLL134881**  
 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>JR0189843</b>	JR0135490	JR0093508
Sample Date		Client Info		<b>05 Mar 2024</b>	07 Feb 2023	11 Jan 2022
Machine Age	hrs	Client Info		<b>133</b>	90	49
Oil Age	hrs	Client Info		<b>0</b>	90	0
Filter Age	hrs	Client Info		<b>0</b>	90	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>25</b>	29	28
Iron	ppm	ASTM D5185m	>20	<b>15</b>	29	22
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	5	4
Lead	ppm	ASTM D5185m	>10	<b>&lt;1</b>	3	2
Copper	ppm	ASTM D5185m	>75	<b>16</b>	37	20
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
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 silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>8</b>	13	12
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	3	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 175710</b>	▲ 167633	▲ 157621
Particles >6µm		ASTM D7647	>1300	<b>▲ 37279</b>	▲ 43330	▲ 23574
Particles >14µm		ASTM D7647	>160	<b>126</b>	136	91
Particles >21µm		ASTM D7647	>40	<b>8</b>	11	13
Particles >38µm		ASTM D7647	>10	<b>0</b>	0	0
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 25/22/14</b>	▲ 25/23/14	▲ 24/22/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
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	NEG

### FLUID CONDITION

Confirm oil type. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	3	3
Boron	ppm	ASTM D5185m		<b>0</b>	3	9
Barium	ppm	ASTM D5185m		<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>90</b>	104	102
Calcium	ppm	ASTM D5185m		<b>3499</b>	3495	3575
Phosphorus	ppm	ASTM D5185m		<b>1037</b>	964	998
Zinc	ppm	ASTM D5185m		<b>1264</b>	1227	1215
Sulfur	ppm	ASTM D5185m		<b>3910</b>	4057	3339
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.29</b>	1.67	1.263
Visc @ 40°C	cSt	ASTM D445	32	<b>46.9</b>	33.0	34.4

