



# WEAR CHECK

## OIL ANALYSIS REPORT

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



Machine Id  
**JOHN DEERE 250-D OFF RDTK 40202 (S/N 606178)**  
Component  
**Center Left Planetary**  
Fluid  
**GEAR OIL SAE 80W90 (6 QTS)**

### RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

### CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil.

### FLUID CONDITION

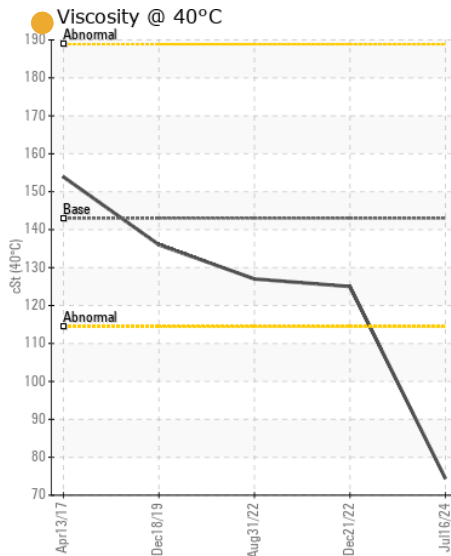
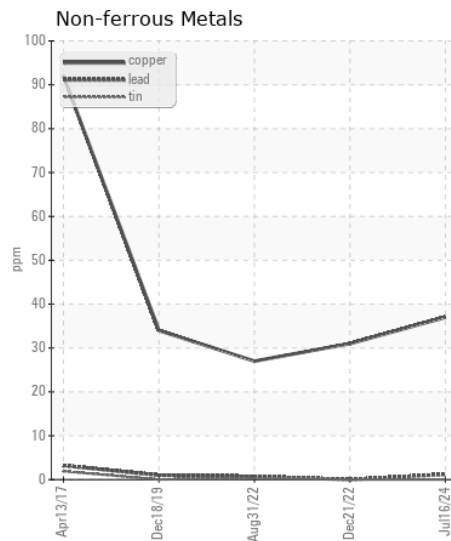
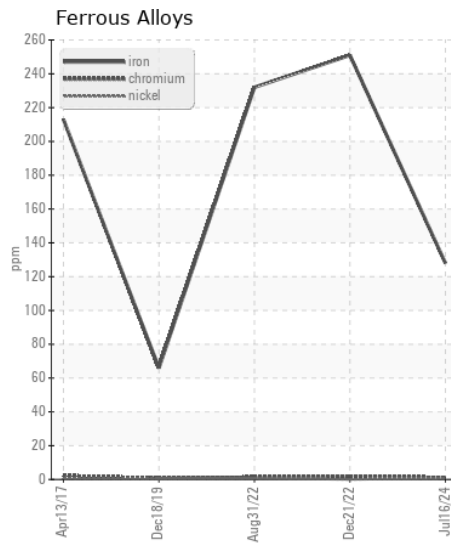
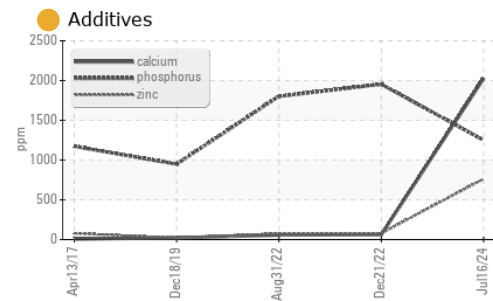
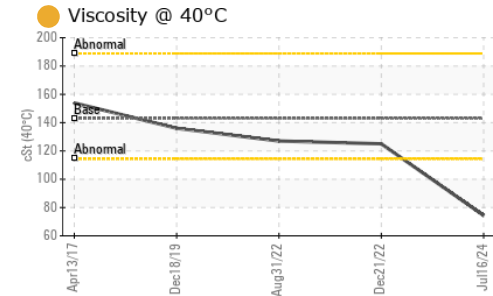
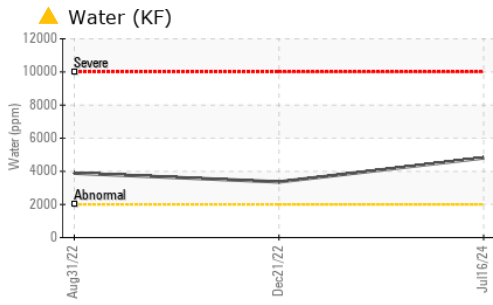
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0950637</b>	WC0756313	WC0733320
Sample Date		Client Info		<b>16 Jul 2024</b>	21 Dec 2022	31 Aug 2022
Machine Age	hrs	Client Info		<b>14306</b>	13396	12791
Oil Age	hrs	Client Info		<b>500</b>	0	0
Filter Age	hrs	Client Info		<b>500</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>500	<b>128</b>	251	232
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	2	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	4	3
Lead	ppm	ASTM D5185m	>25	<b>1</b>	0	<1
Copper	ppm	ASTM D5185m	>75	<b>37</b>	31	27
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	VLITE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER

Silicon	ppm	ASTM D5185m	>75	<b>5</b>	5	5
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	0	0
Water	%	ASTM D6304	>0.2	<b>▲ 0.481</b>	▲ 0.336	▲ 0.389
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 4810</b>	▲ 3360	▲ 3890
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>▲ MODER</b>	VLITE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	● HAZY	● HAZY
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>▲ 0.2%</b>	0.2%	0.2%

Sodium	ppm	ASTM D5185m	>170	<b>0</b>	<1	0
Boron	ppm	ASTM D5185m	400	<b>66</b>	31	53
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	12	<b>17</b>	27	21
Manganese	ppm	ASTM D5185m		<b>2</b>	3	3
Magnesium	ppm	ASTM D5185m	12	<b>58</b>	11	6
Calcium	ppm	ASTM D5185m	150	<b>● 2026</b>	62	57
Phosphorus	ppm	ASTM D5185m	1650	<b>1250</b>	1954	1802
Zinc	ppm	ASTM D5185m	125	<b>● 763</b>	78	76
Sulfur	ppm	ASTM D5185m	22500	<b>● 8523</b>	22931	18171
Visc @ 40°C	cSt	ASTM D445	143	<b>● 74.4</b>	125	127



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0950637  
**Lab Number** : 06240718  
**Unique Number** : 11129552  
**Test Package** : CONST ( Additional Tests: KF )

**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 20 Jul 2024 - Don Baldrige

**SULLIVAN EASTERN INC**  
 2860 C SLATER RD  
 MORRISVILLE, NC  
 US 27560

Contact: SCOTT SULLIVAN  
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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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