



# OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ATTENTION**  
**ABNORMAL**  
**NORMAL**



Machine Id  
**JOHN DEERE 450J DOZER 22300 (S/N 264006)**  
Component  
**Right Final Drive**  
Fluid  
**AW HYDRAULIC OIL ISO 68 (4 QTS)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0950700</b>	WC0846582	WC0551145
Sample Date		Client Info		<b>19 Jun 2024</b>	11 Aug 2023	01 Jul 2021
Machine Age	hrs	Client Info		<b>6521</b>	6092	5084
Oil Age	hrs	Client Info		<b>500</b>	252	997
Filter Age	hrs	Client Info		<b>500</b>	252	0
Oil Changed		Client Info		<b>Not Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Not Changed</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	NORMAL	SEVERE

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>750	<b>221</b>	11	228
Chromium	ppm	ASTM D5185m	>9	<b>2</b>	<1	2
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>1</b>	0	6
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>22</b>	2	140
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>40	<b>2</b>	<1	1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

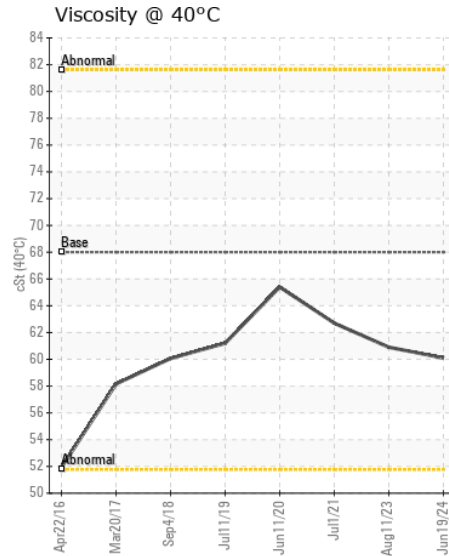
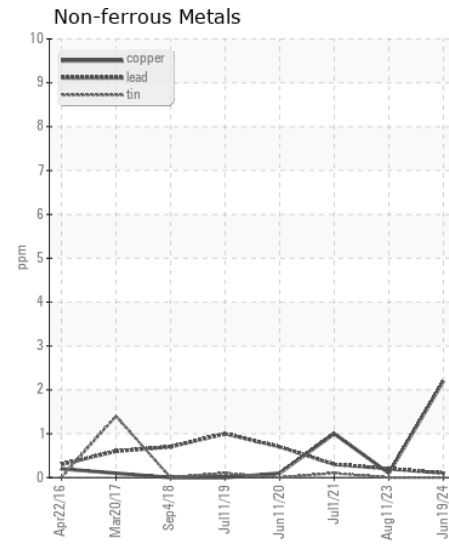
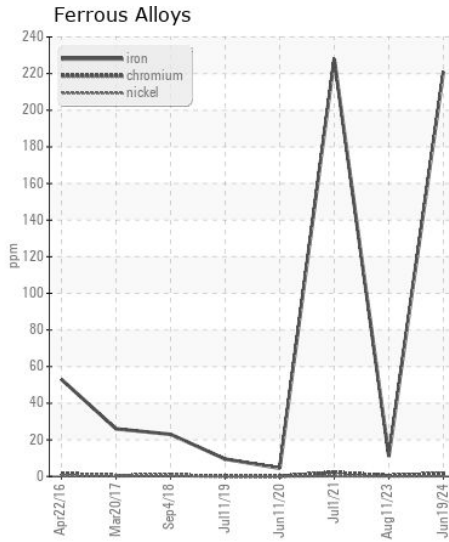
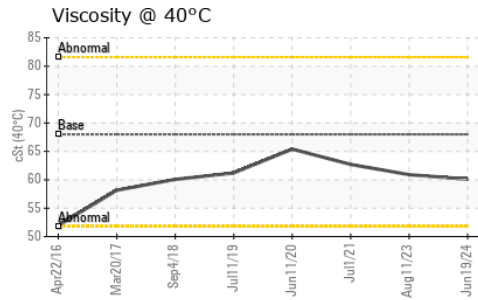
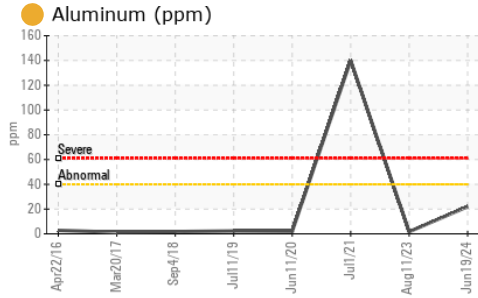
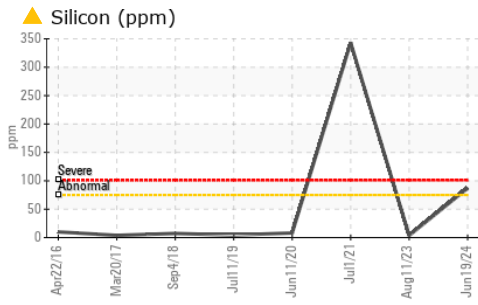
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	<b>▲ 87</b>	4	▲ 343
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	<1	25
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</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	>0.075	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>2</b>	0	7
Boron	ppm	ASTM D5185m	5	<b>25</b>	23	304
Barium	ppm	ASTM D5185m	5	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	5	<b>10</b>	9	68
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	3
Magnesium	ppm	ASTM D5185m	25	<b>48</b>	39	264
Calcium	ppm	ASTM D5185m	200	<b>165</b>	152	948
Phosphorus	ppm	ASTM D5185m	300	<b>482</b>	377	580
Zinc	ppm	ASTM D5185m	370	<b>565</b>	487	673
Sulfur	ppm	ASTM D5185m	2500	<b>1834</b>	1237	2183
Visc @ 40°C	cSt	ASTM D445	68	<b>60.1</b>	60.9	62.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0950700  
**Lab Number** : 06220098  
**Unique Number** : 11098295  
**Test Package** : CONST  
**Received** : 25 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 27 Jun 2024 - Sean Felton

**SULLIVAN EASTERN INC**  
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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)