



# OIL ANALYSIS REPORT

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

Area

**[W9034]**

Machine Id

**JOHN DEERE 260E 1DW260ETJNF716100**

Component

**Rear Differential**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (10 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please note that this is a corrected copy. ( Customer Sample Comment: W9034 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0196925</b>	JR0197180	JR0194521
Sample Date		Client Info		<b>13 Jun 2024</b>	10 Apr 2024	24 Dec 2023
Machine Age	hrs	Client Info		<b>2558</b>	2248	1752
Oil Age	hrs	Client Info		<b>310</b>	2248	0
Filter Age	hrs	Client Info		<b>310</b>	1200	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Filter Changed		Client Info		<b>Not Changd</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>74</b>	352	12
Iron	ppm	ASTM D5185m	>500	<b>122</b>	488	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	3	0
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	7	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	5	<1
Lead	ppm	ASTM D5185m	>25	<b>6</b>	17	<1
Copper	ppm	ASTM D5185m	>100	<b>93</b>	▲ 268	0
Tin	ppm	ASTM D5185m	>10	<b>3</b>	11	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

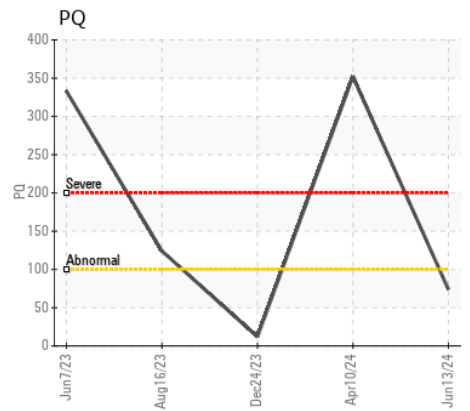
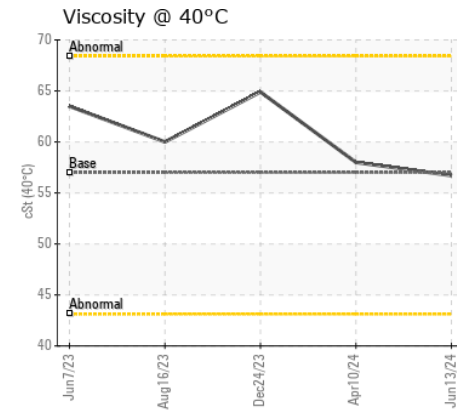
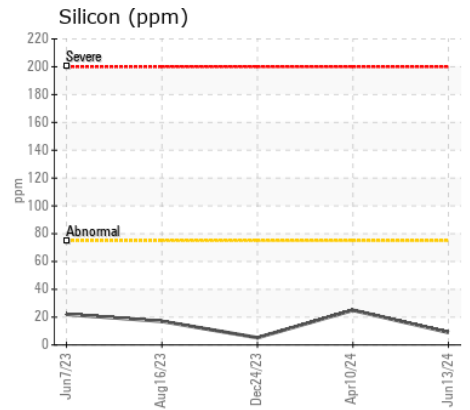
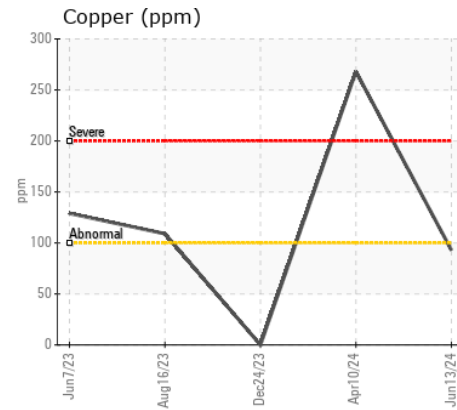
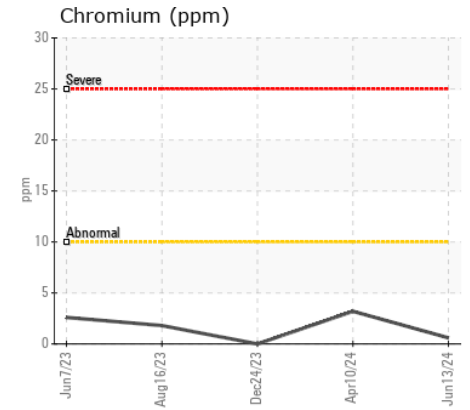
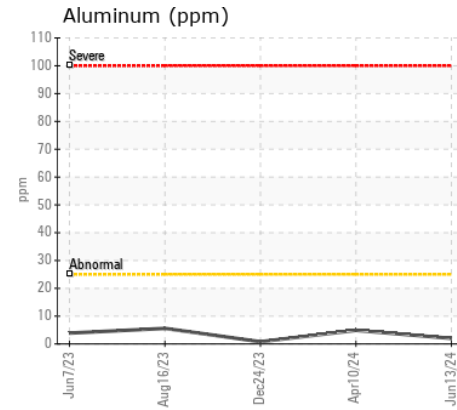
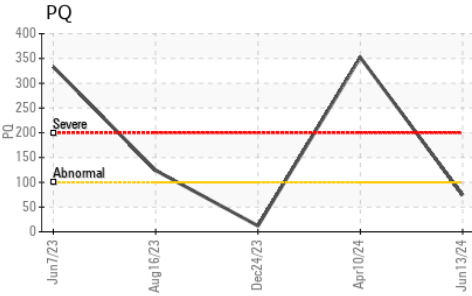
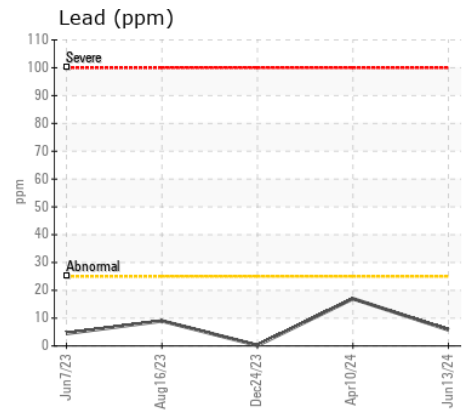
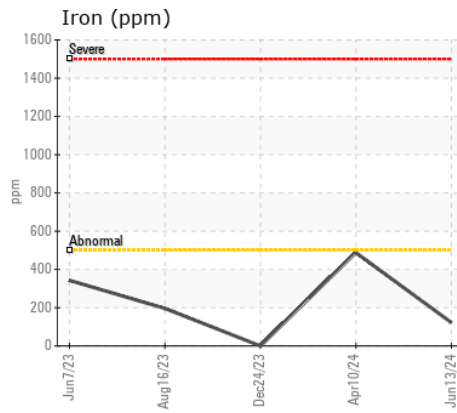
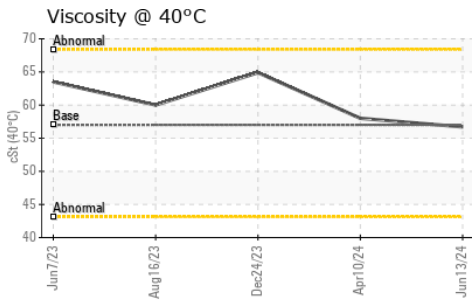
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>9</b>	25	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	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	>.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		<b>6</b>	16	0
Boron	ppm	ASTM D5185m	6	<b>18</b>	73	48
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	2	0
Molybdenum	ppm	ASTM D5185m	0	<b>6</b>	24	39
Manganese	ppm	ASTM D5185m		<b>6</b>	26	0
Magnesium	ppm	ASTM D5185m	145	<b>100</b>	133	217
Calcium	ppm	ASTM D5185m	3570	<b>3032</b>	3355	2864
Phosphorus	ppm	ASTM D5185m	1290	<b>1018</b>	1099	1014
Zinc	ppm	ASTM D5185m	1640	<b>1202</b>	1315	1190
Sulfur	ppm	ASTM D5185m		<b>3732</b>	4143	3338
Visc @ 40°C	cSt	ASTM D445	57.0	<b>56.7</b>	58.0	64.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0196925 **Received** : 17 Jun 2024  
**Lab Number** : 06212051 **Tested** : 18 Jun 2024  
**Unique Number** : 11084915 **Diagnosed** : 19 Jun 2024 - Sean Felton  
**Test Package** : MOBCE ( Additional Tests: PQ )

**JRE - HOPE MILLS/FAYETTEVILLE**  
 5039 HWY 301 SOUTH  
 HOPE MILLS, NC  
 US 28348  
 Contact: FAYETTEVILLE SHOP  
 stephen.mullis@jamesriverequipment.com; panastasio@wearcheck.com  
 T:  
 F:

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)