



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

Area

**[W49818]**

Machine Id

**JOHN DEERE 260E 1DW260ETCMF711589**

Component

**Rear Differential**

Fluid

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

### RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0200029</b>	JR0125068	---
Sample Date		Client Info		<b>09 Feb 2024</b>	24 May 2022	---
Machine Age	hrs	Client Info		<b>1984</b>	711	---
Oil Age	hrs	Client Info		<b>1000</b>	711	---
Filter Age	hrs	Client Info		<b>1000</b>	711	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

### WEAR

The copper level is abnormal. All other component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>172</b>	251	---
Iron	ppm	ASTM D5185m	>500	<b>267</b>	302	---
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	3	---
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	6	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	4	---
Lead	ppm	ASTM D5185m	>25	<b>16</b>	17	---
Copper	ppm	ASTM D5185m	>100	<b>▲ 337</b>	189	---
Tin	ppm	ASTM D5185m	>10	<b>10</b>	8	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

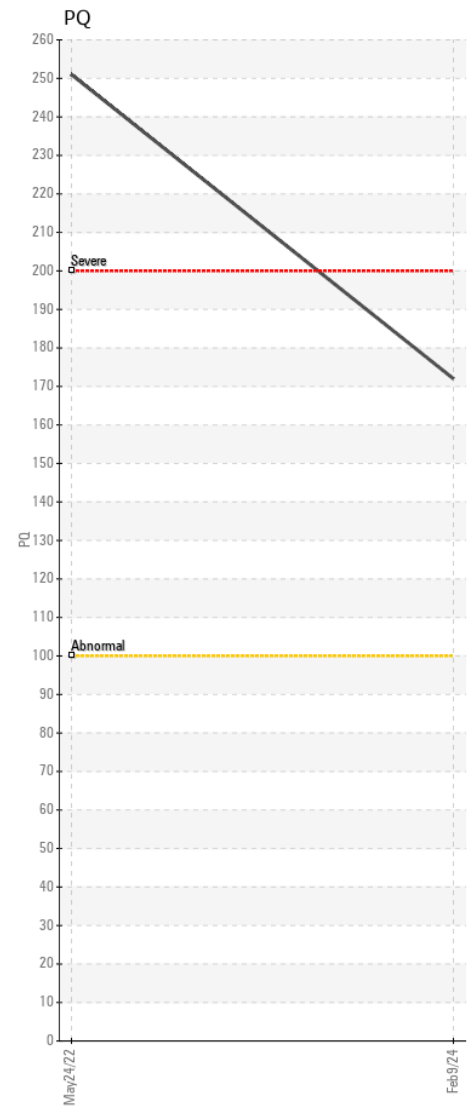
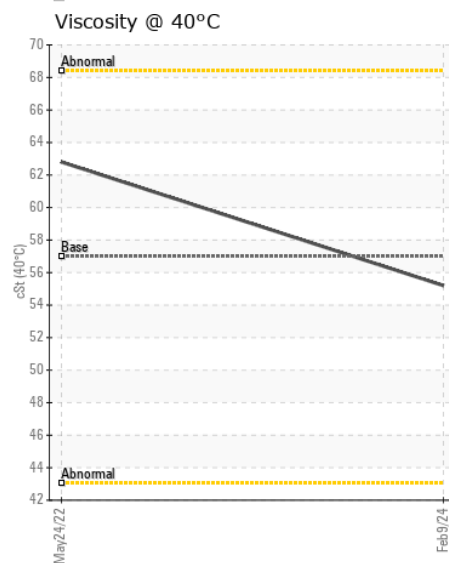
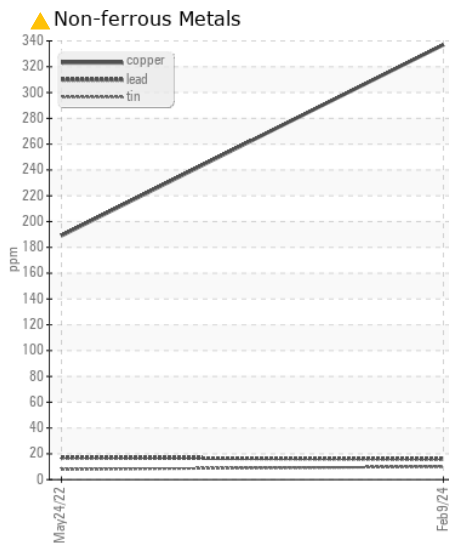
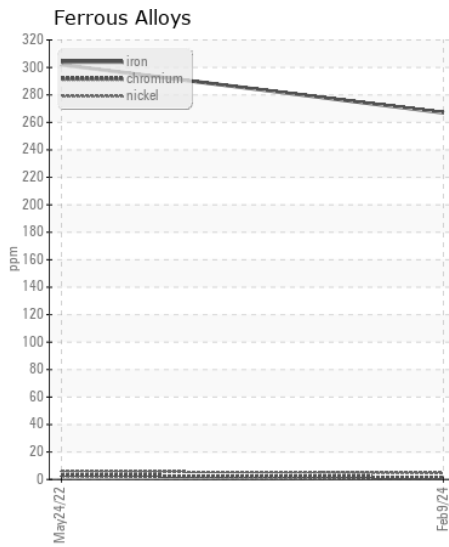
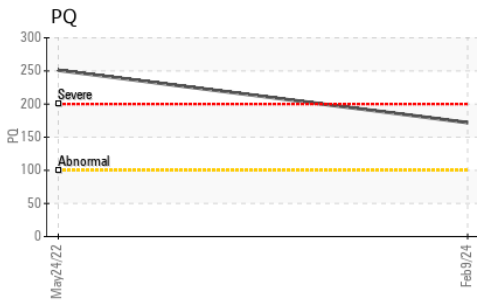
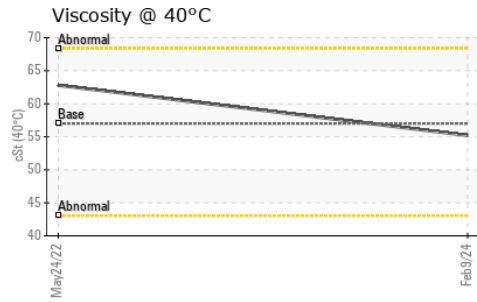
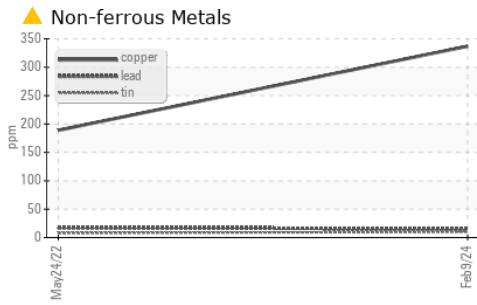
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	<b>15</b>	20	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	<1	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	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>4</b>	22	---
Boron	ppm	ASTM D5185m	6	<b>29</b>	108	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>12</b>	32	---
Magnesium	ppm	ASTM D5185m	145	<b>82</b>	27	---
Calcium	ppm	ASTM D5185m	3570	<b>3376</b>	3550	---
Phosphorus	ppm	ASTM D5185m	1290	<b>977</b>	1147	---
Zinc	ppm	ASTM D5185m	1640	<b>1351</b>	1417	---
Sulfur	ppm	ASTM D5185m		<b>3530</b>	2803	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>55.2</b>	62.8	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200029 **Received** : 13 Feb 2024  
**Lab Number** : 06087637 **Tested** : 14 Feb 2024  
**Unique Number** : 10875082 **Diagnosed** : 14 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - ASHLAND**  
 11047 LEADBETTER RD  
 ASHLAND, VA  
 US 23005  
 Contact: DAVID ZIEG  
 dzieg@jamesriverequipment.com  
 T: (804)798-6001  
 F: (804)798-0292

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)