



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

Area

**[05W47555]**

Machine Id

**JOHN DEERE PM061171**

Component

**Front Differential**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (8 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0218316</b>	JR0190175	JR0176360
Sample Date		Client Info		<b>21 Jun 2024</b>	23 Oct 2023	16 Jun 2023
Machine Age	hrs	Client Info		<b>2994</b>	2451	1457
Oil Age	hrs	Client Info		<b>1000</b>	0	2000
Filter Age	hrs	Client Info		<b>1000</b>	0	1000
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>16</b>	26	21
Iron	ppm	ASTM D5185m	>500	<b>23</b>	44	22
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m	>25	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m	>100	<b>9</b>	11	5
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

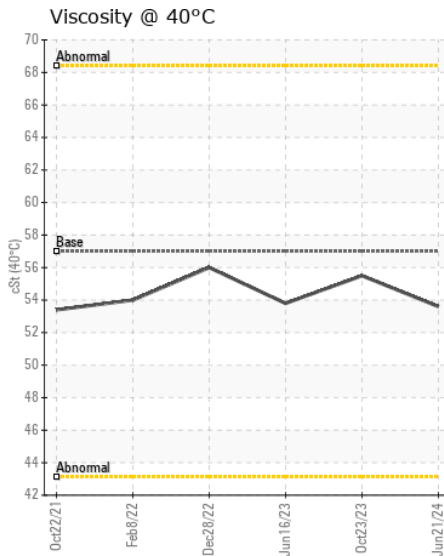
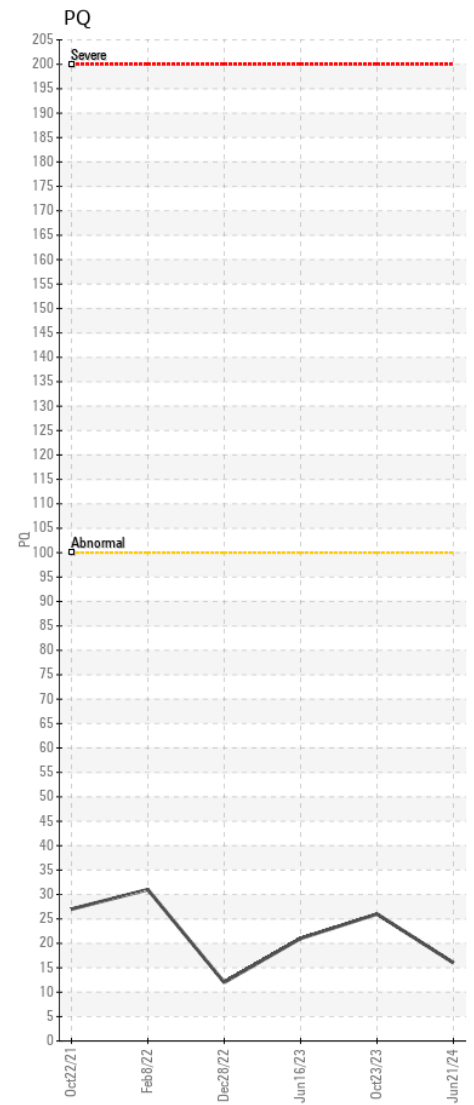
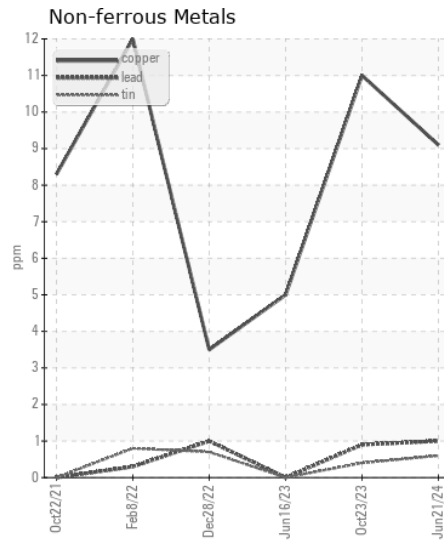
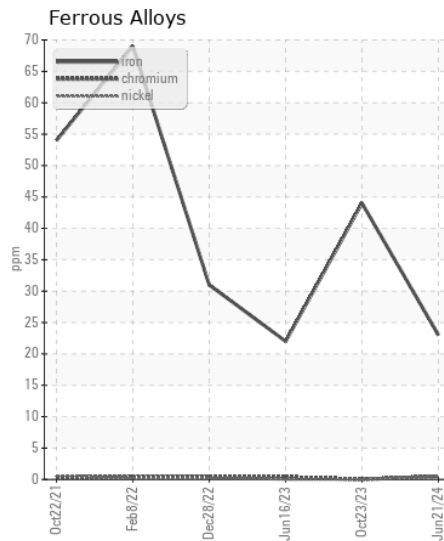
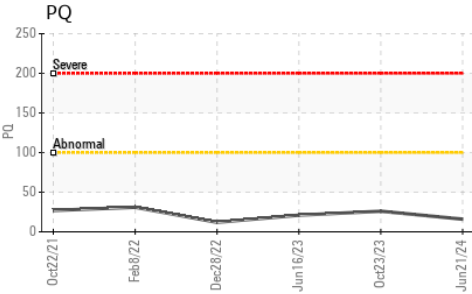
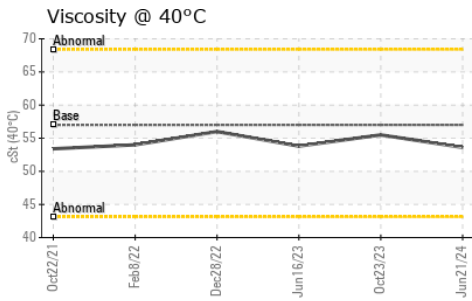
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>5</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	<1
Water		WC Method	>.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	▲ MODER
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.

Sodium	ppm	ASTM D5185m		<b>2</b>	1	1
Boron	ppm	ASTM D5185m	6	<b>10</b>	6	10
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	5
Molybdenum	ppm	ASTM D5185m	0	<b>5</b>	5	9
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	<1
Magnesium	ppm	ASTM D5185m	145	<b>110</b>	106	138
Calcium	ppm	ASTM D5185m	3570	<b>3294</b>	2993	3453
Phosphorus	ppm	ASTM D5185m	1290	<b>1106</b>	999	1040
Zinc	ppm	ASTM D5185m	1640	<b>1279</b>	1197	1254
Sulfur	ppm	ASTM D5185m		<b>3378</b>	3407	4309
Visc @ 40°C	cSt	ASTM D445	57.0	<b>53.6</b>	55.5	53.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0218316 **Received** : 25 Jun 2024  
**Lab Number** : 06220026 **Tested** : 26 Jun 2024  
**Unique Number** : 11098223 **Diagnosed** : 26 Jun 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**FITZGERALD EXCAVATING**  
 PO BOX 2168  
 WINCHESTER, VA  
 US 22604  
 Contact: Service Manager

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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F: