



# OIL ANALYSIS REPORT

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

Area

**[W9108]**

Machine Id

**JOHN DEERE 160G 1FF160GXJMF058343**

Component

**Right Final Drive**

Fluid

**JOHN DEERE GL-5 80W90 (2 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W9108 )

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0197139</b>	JR0167520	JR0077683
Sample Date		Client Info		<b>26 Jun 2024</b>	28 May 2023	03 Nov 2022
Machine Age	hrs	Client Info		<b>2466</b>	2165	1993
Oil Age	hrs	Client Info		<b>301</b>	172	1993
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	<b>94</b>	132	106
Iron	ppm	ASTM D5185m	>750	<b>81</b>	95	109
Chromium	ppm	ASTM D5185m	>9	<b>2</b>	2	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>&lt;1</b>	0	<1
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>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

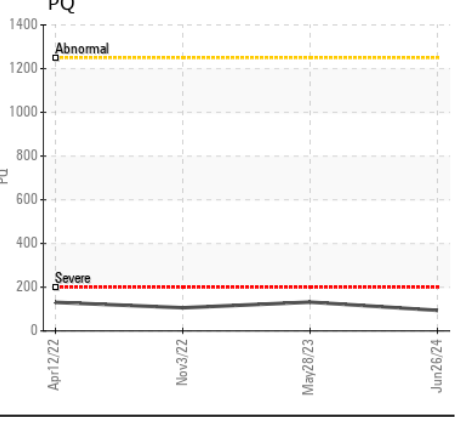
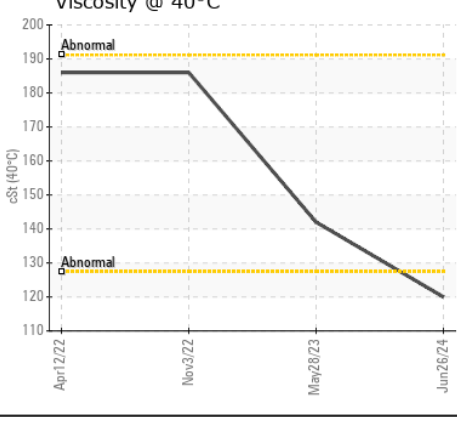
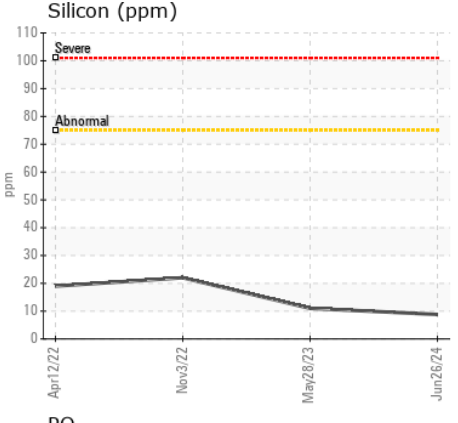
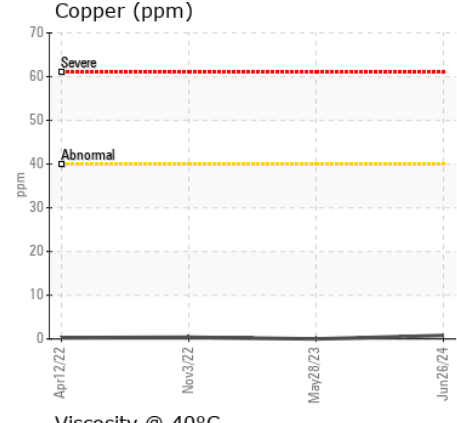
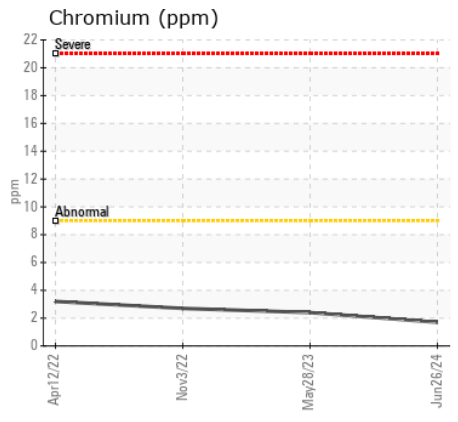
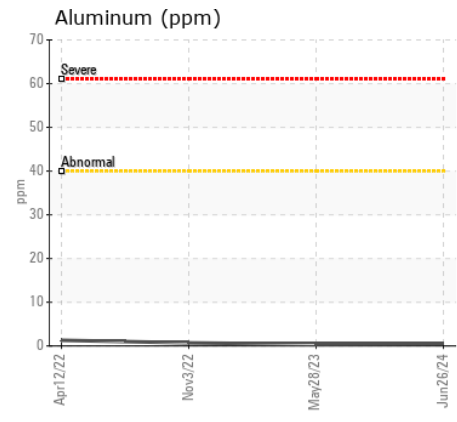
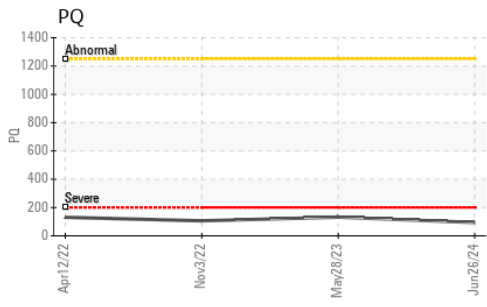
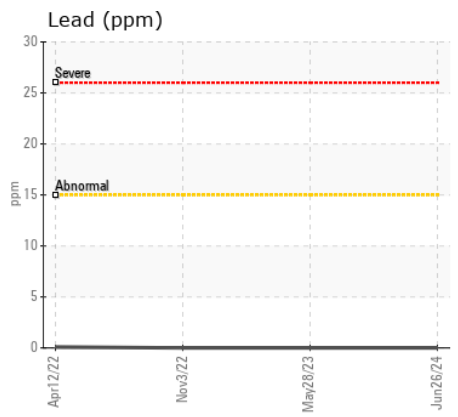
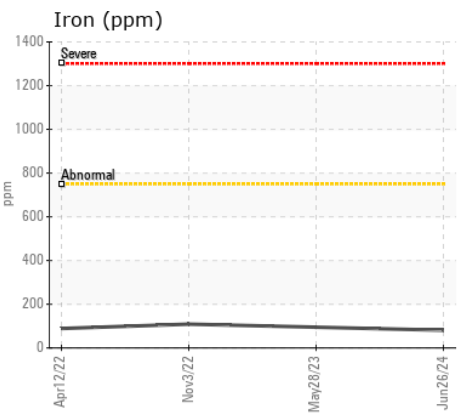
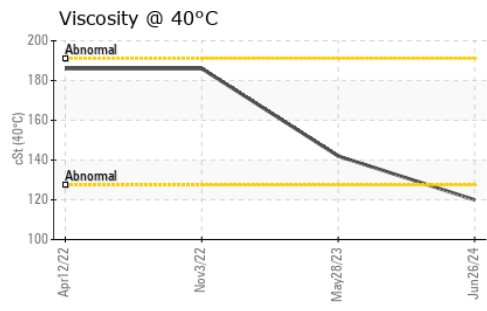
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>9</b>	11	22
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	1	2
Water		WC Method	>0.075	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</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>3</b>	<1	0
Boron	ppm	ASTM D5185m		<b>33</b>	19	65
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	11
Molybdenum	ppm	ASTM D5185m		<b>3</b>	3	3
Manganese	ppm	ASTM D5185m		<b>2</b>	2	7
Magnesium	ppm	ASTM D5185m		<b>11</b>	11	13
Calcium	ppm	ASTM D5185m		<b>39</b>	44	31
Phosphorus	ppm	ASTM D5185m		<b>643</b>	914	503
Zinc	ppm	ASTM D5185m		<b>25</b>	27	39
Sulfur	ppm	ASTM D5185m		<b>22131</b>	25712	17778
Visc @ 40°C	cSt	ASTM D445		<b>120</b>	142	186



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197139 **Received** : 28 Jun 2024  
**Lab Number** : 06223677 **Tested** : 01 Jul 2024  
**Unique Number** : 11101874 **Diagnosed** : 01 Jul 2024 - Don Baldridge  
**Test Package** : MOBCE ( Additional Tests: PQ )

**JRE - HOPE MILLS/FAYETTEVILLE**  
 5039 HWY 301 SOUTH  
 HOPE MILLS, NC  
 US 28348  
 Contact: FAYETTEVILLE SHOP  
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 T:  
 F:

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)