



Area

**[42284]**

Machine Id

**JOHN DEERE 350G 1FF350GXCKF814053**

Component

**Pump Drive**

Fluid

**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### 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>JR0184043</b>	JR0160266	JR0137110
Sample Date		Client Info		<b>07 Sep 2023</b>	13 Feb 2023	20 Jul 2022
Machine Age	hrs	Client Info		<b>6150</b>	5435	4952
Oil Age	hrs	Client Info		<b>5667</b>	483	403
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

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

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>51</b>	80	23
Iron	ppm	ASTM D5185m	>151	<b>▲ 250</b>	▲ 156	26
Chromium	ppm	ASTM D5185m	>11	<b>5</b>	4	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>3</b>	2	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>21	<b>● 10</b>	7	3
Lead	ppm	ASTM D5185m	>51	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>51	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>MODER</b>	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

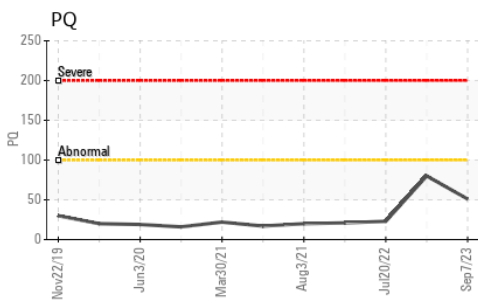
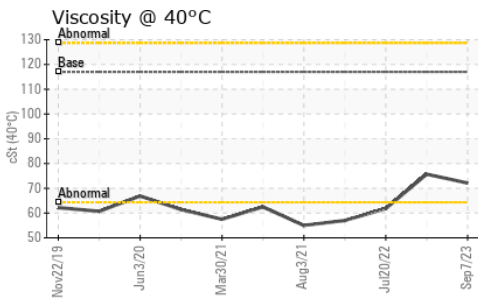
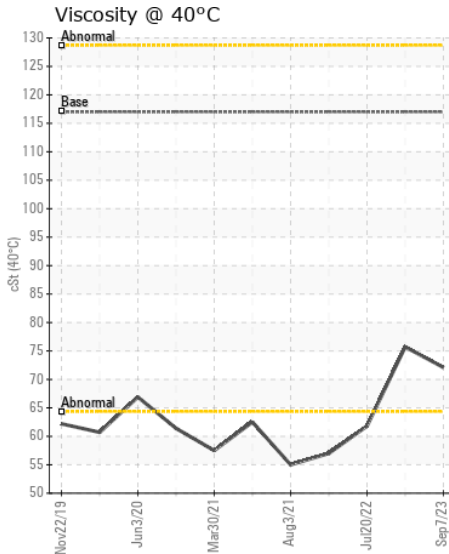
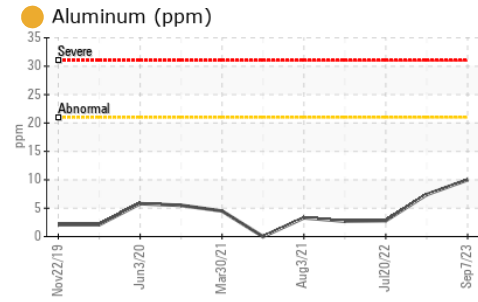
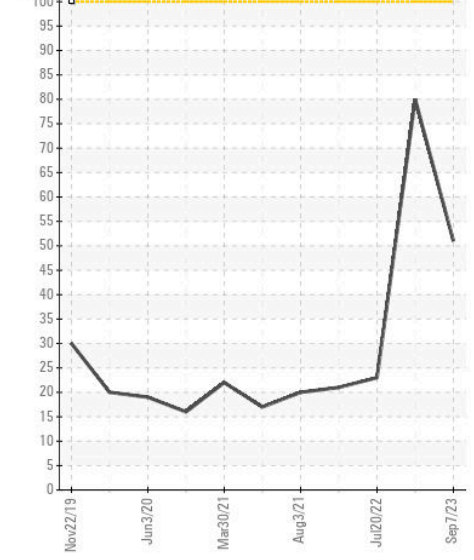
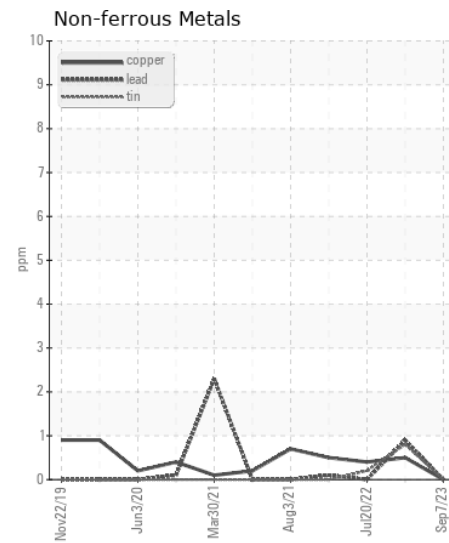
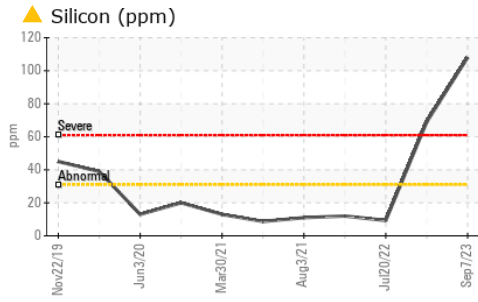
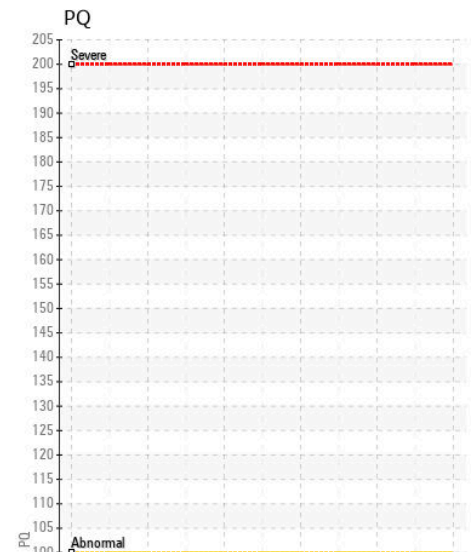
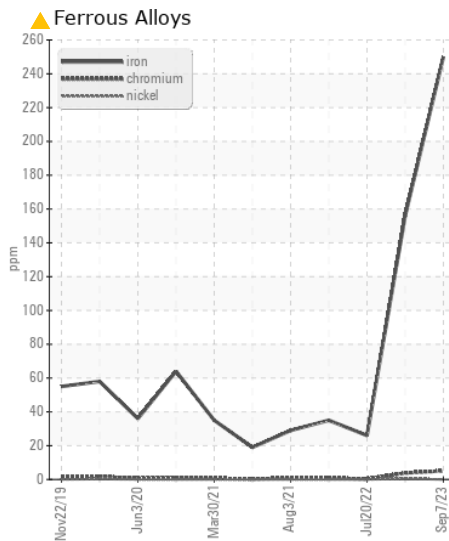
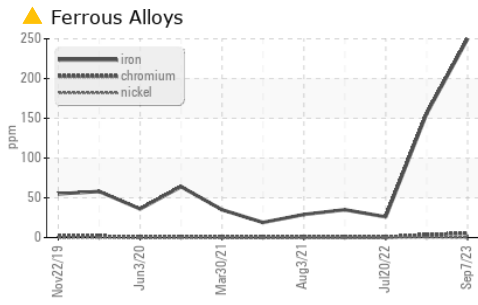
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>31	<b>▲ 108</b>	▲ 69	9
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	8	<1
Water		WC Method	>0.1	<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	>0.1	<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>10</b>	7	1
Boron	ppm	ASTM D5185m		<b>309</b>	240	223
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Molybdenum	ppm	ASTM D5185m		<b>247</b>	172	163
Manganese	ppm	ASTM D5185m		<b>8</b>	5	<1
Magnesium	ppm	ASTM D5185m		<b>842</b>	683	508
Calcium	ppm	ASTM D5185m		<b>1543</b>	1109	947
Phosphorus	ppm	ASTM D5185m		<b>946</b>	642	732
Zinc	ppm	ASTM D5185m		<b>1058</b>	789	659
Sulfur	ppm	ASTM D5185m		<b>3716</b>	2640	2701
Visc @ 40°C	cSt	ASTM D445	117	<b>72.1</b>	75.7	61.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0184043 **Received** : 12 Sep 2023  
**Lab Number** : 05949468 **Tested** : 14 Sep 2023  
**Unique Number** : 10645427 **Diagnosed** : 15 Sep 2023 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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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)