



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



Machine Id  
**JOHN DEERE 300G 1FF300GXTNF732045**

Component  
**Pump Drive**

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

### RECOMMENDATION

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0202752</b>	JR0161050	---
Sample Date		Client Info		<b>27 Feb 2024</b>	01 Mar 2023	---
Machine Age	hrs	Client Info		<b>2100</b>	587	---
Oil Age	hrs	Client Info		<b>2100</b>	587	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>17</b>	19	---
Iron	ppm	ASTM D5185m	>151	<b>62</b>	44	---
Chromium	ppm	ASTM D5185m	>11	<b>1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>21	<b>1</b>	<1	---
Lead	ppm	ASTM D5185m	>51	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>51	<b>0</b>	0	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	---
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

Elemental level of silicon (Si) above normal indicating ingress of seal material.

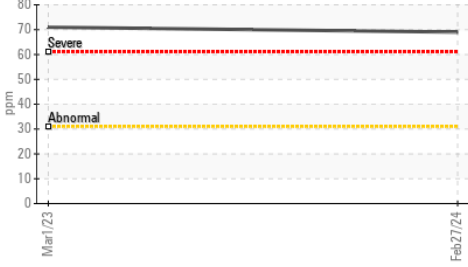
Silicon	ppm	ASTM D5185m	>31	<b>▲ 69</b>	▲ 71	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	---

### FLUID CONDITION

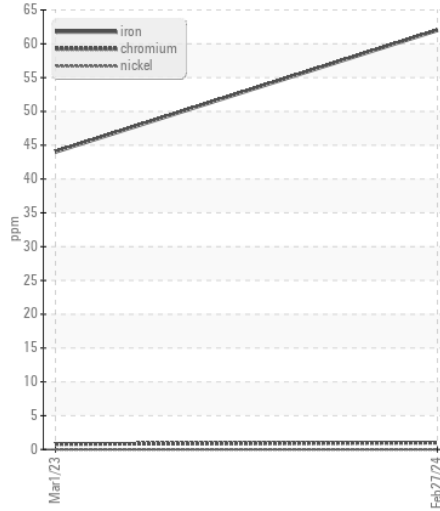
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	<b>4</b>	3	---
Boron	ppm	ASTM D5185m		<b>52</b>	57	---
Barium	ppm	ASTM D5185m		<b>9</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>99</b>	101	---
Manganese	ppm	ASTM D5185m		<b>3</b>	4	---
Magnesium	ppm	ASTM D5185m		<b>12</b>	2	---
Calcium	ppm	ASTM D5185m		<b>3846</b>	4423	---
Phosphorus	ppm	ASTM D5185m		<b>1145</b>	1171	---
Zinc	ppm	ASTM D5185m		<b>1242</b>	1399	---
Sulfur	ppm	ASTM D5185m		<b>7819</b>	10170	---
Visc @ 40°C	cSt	ASTM D445	117	<b>60.3</b>	62.8	---

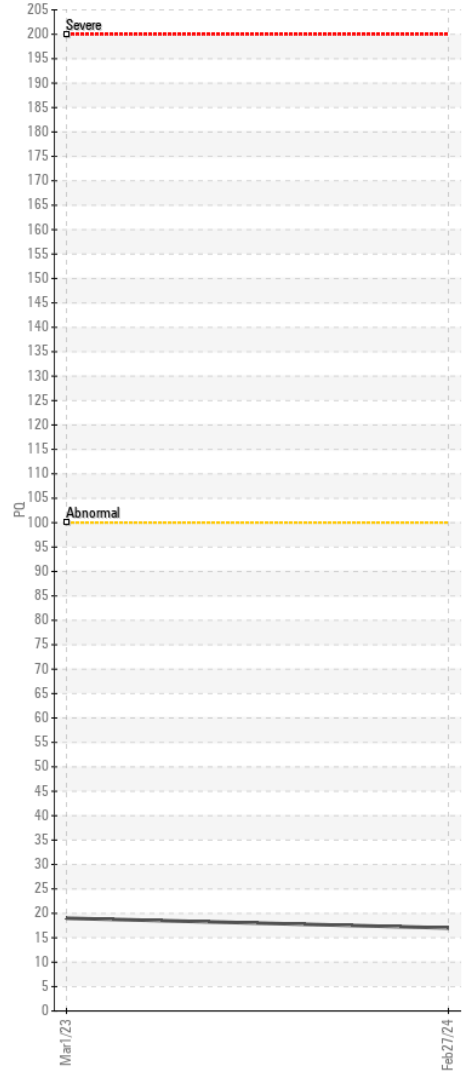
▲ Silicon (ppm)



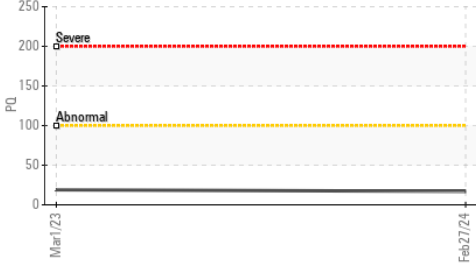
Ferrous Alloys



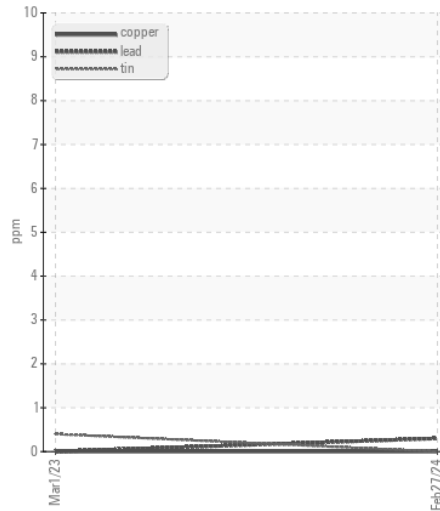
PQ



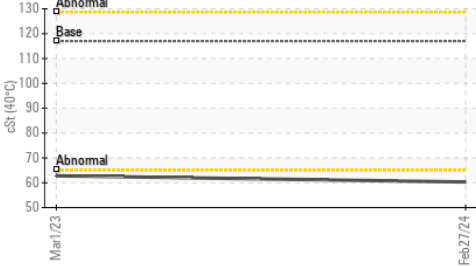
PQ



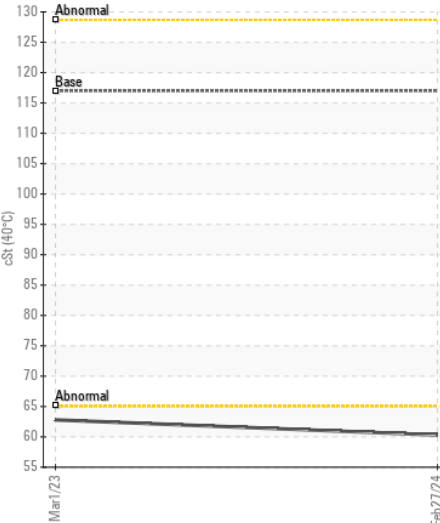
Non-ferrous Metals



Viscosity @ 40°C



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0202752 **Received** : 29 Feb 2024  
**Lab Number** : 06104607 **Tested** : 01 Mar 2024  
**Unique Number** : 10902837 **Diagnosed** : 04 Mar 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

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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