



# OIL ANALYSIS REPORT

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

Area  
**[W39073]**  
 Machine Id  
**JOHN DEERE 180G 1FF180GXEJF020853**  
 Component  
**Pump Drive**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

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>JR0096279</b>	JR0073025	---
Sample Date		Client Info		<b>04 Aug 2021</b>	01 Mar 2021	---
Machine Age	hrs	Client Info		<b>1600</b>	1153	---
Oil Age	hrs	Client Info		<b>0</b>	500	---
Filter Age	hrs	Client Info		<b>0</b>	500	---
Oil Changed		Client Info		<b>Not Changed</b>	Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

## WEAR

Metal levels are typical for a new component breaking in.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>32</b>	21	---
Iron	ppm	ASTM D5185m	>151	<b>110</b>	63	---
Chromium	ppm	ASTM D5185m	>11	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m		<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>21	<b>17</b>	<1	---
Lead	ppm	ASTM D5185m	>51	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>51	<b>&lt;1</b>	3	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

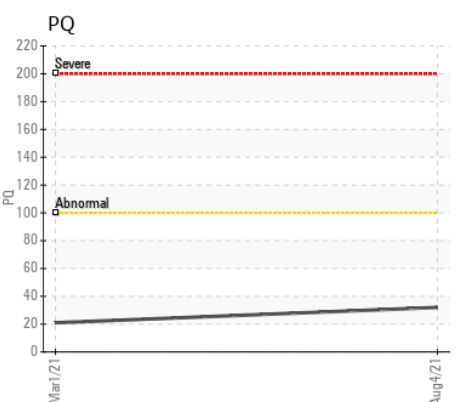
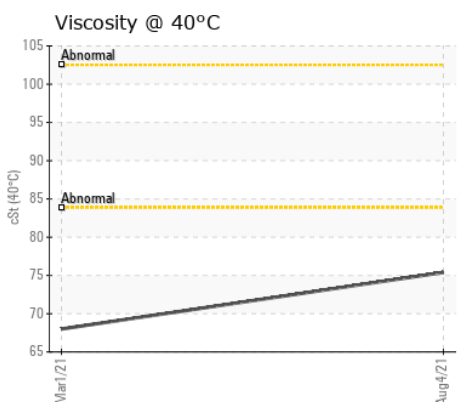
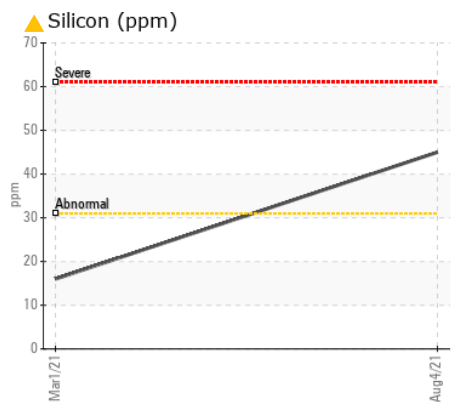
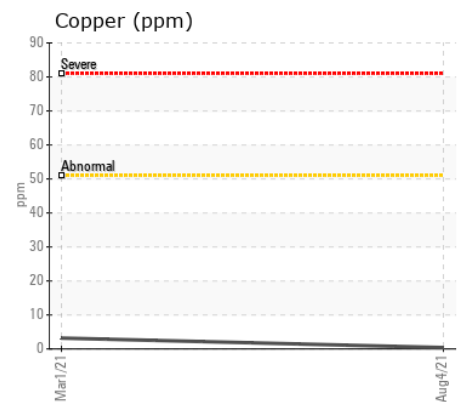
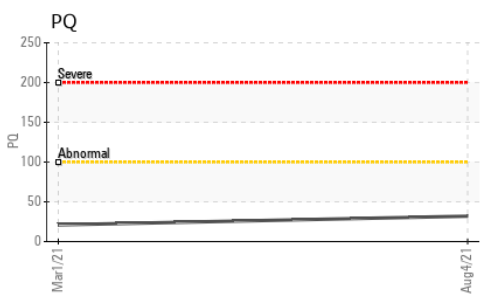
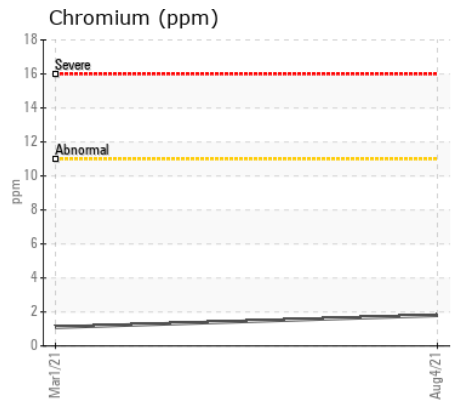
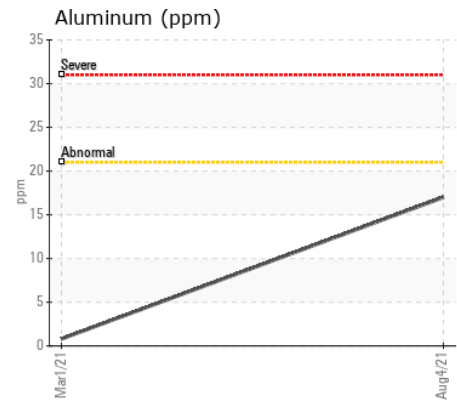
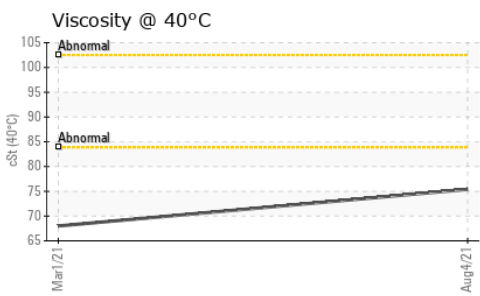
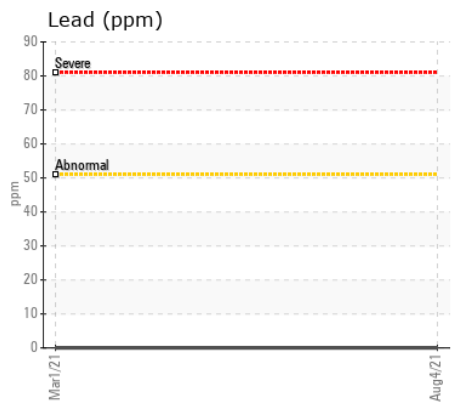
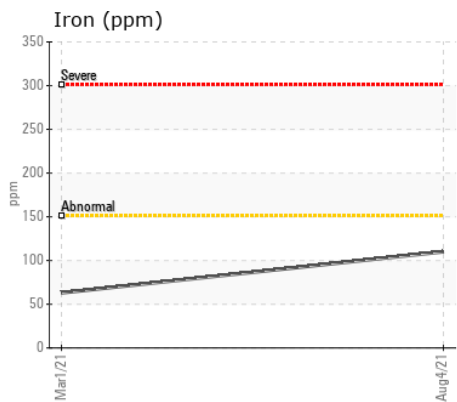
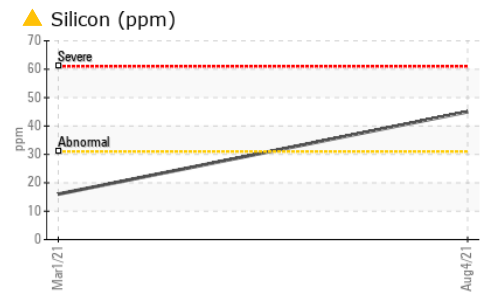
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>31	<b>▲ 45</b>	16	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
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>2</b>	2	---
Boron	ppm	ASTM D5185m		<b>286</b>	84	---
Barium	ppm	ASTM D5185m		<b>0</b>	4	---
Molybdenum	ppm	ASTM D5185m		<b>240</b>	118	---
Manganese	ppm	ASTM D5185m		<b>2</b>	3	---
Magnesium	ppm	ASTM D5185m		<b>710</b>	104	---
Calcium	ppm	ASTM D5185m		<b>1558</b>	3671	---
Phosphorus	ppm	ASTM D5185m		<b>892</b>	1120	---
Zinc	ppm	ASTM D5185m		<b>949</b>	1214	---
Sulfur	ppm	ASTM D5185m		<b>2888</b>	6380	---
Visc @ 40°C	cSt	ASTM D445		<b>75.4</b>	68.0	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0096279 **Received** : 12 Aug 2021  
**Lab Number** : 05325977 **Tested** : 13 Aug 2021  
**Unique Number** : 9619974 **Diagnosed** : 15 Aug 2021 - Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: PQ )

**JRE - CASTLE HAYNE**  
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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)