



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area  
**Store 3 - Norton**

Machine Id  
**JOHN DEERE 1FF250GXVBE608072**

Component  
**Right Propel Gearbox**

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

**RECOMMENDATION**

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

**WEAR**

The iron and chrome levels are severe. Gear wear is indicated.

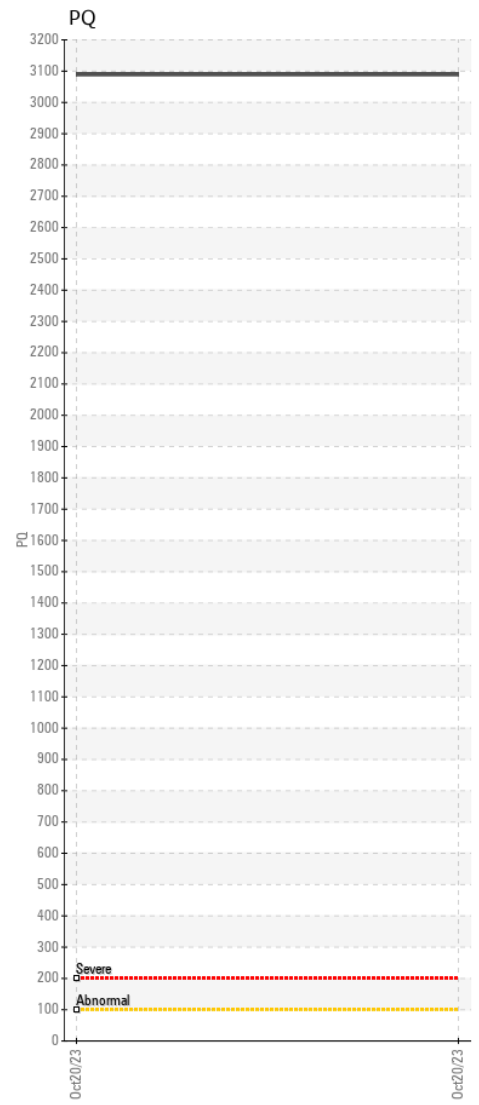
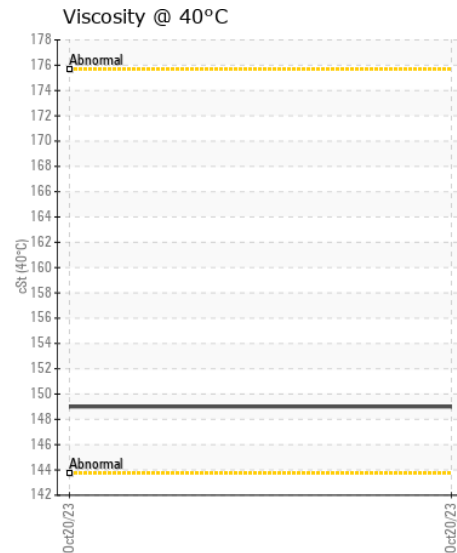
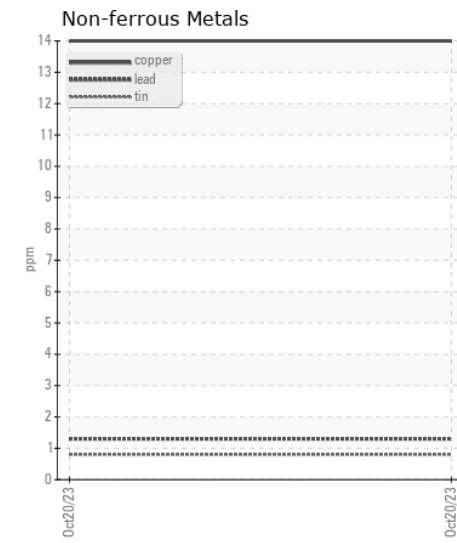
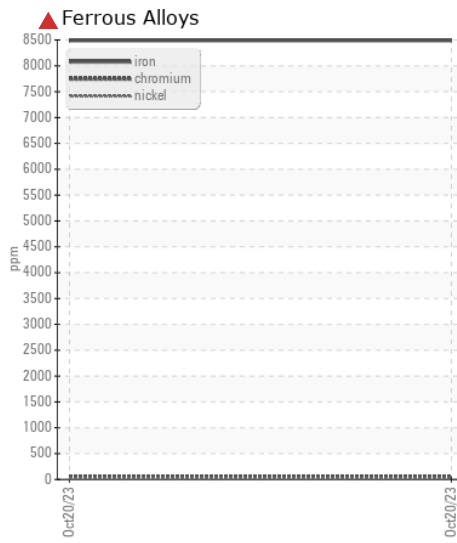
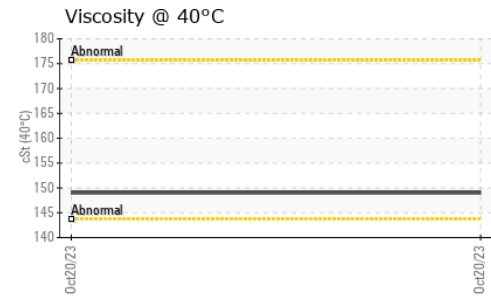
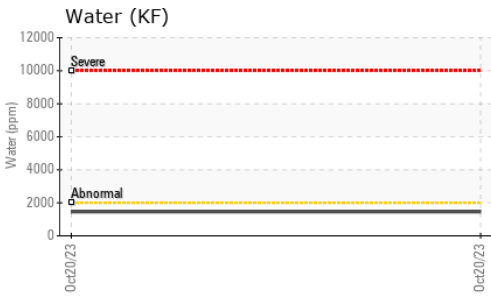
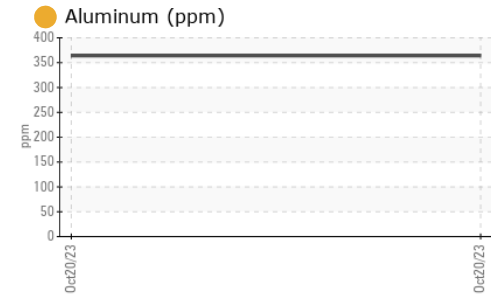
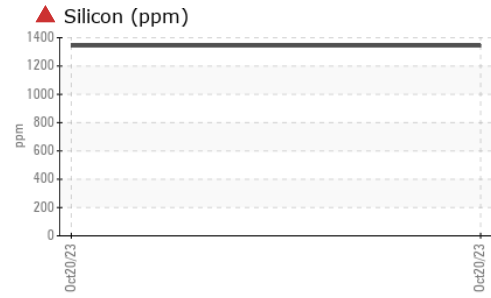
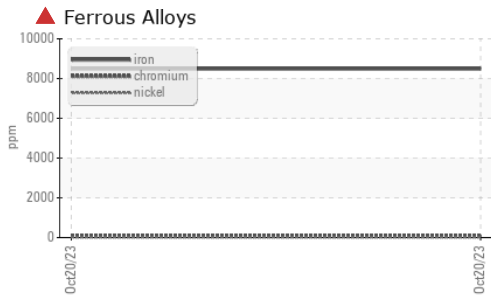
**CONTAMINATION**

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

**FLUID CONDITION**

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0041606	---	---
Sample Date		Client Info		20 Oct 2023	---	---
Machine Age	hrs	Client Info		8483	---	---
Oil Age	hrs	Client Info		763	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
PQ		ASTM D8184		3089	---	---
Iron	ppm	ASTM D5185m	>1250	▲ 8490	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 62	---	---
Nickel	ppm	ASTM D5185m	>10	15	---	---
Titanium	ppm	ASTM D5185m		27	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		● 364	---	---
Lead	ppm	ASTM D5185m		1	---	---
Copper	ppm	ASTM D5185m		14	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		2	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m		▲ 1343	---	---
Potassium	ppm	ASTM D5185m	>20	95	---	---
Water	%	ASTM D6304	>0.2	0.146	---	---
ppm Water	ppm	ASTM D6304	>2000	1460	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---
Sodium	ppm	ASTM D5185m		16	---	---
Boron	ppm	ASTM D5185m		37	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		5	---	---
Manganese	ppm	ASTM D5185m		69	---	---
Magnesium	ppm	ASTM D5185m		45	---	---
Calcium	ppm	ASTM D5185m		71	---	---
Phosphorus	ppm	ASTM D5185m		517	---	---
Zinc	ppm	ASTM D5185m		24	---	---
Sulfur	ppm	ASTM D5185m		17013	---	---
Visc @ 40°C	cSt	ASTM D445		149	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LEC0041606 **Received** : 24 Oct 2023  
**Lab Number** : 05988378 **Tested** : 26 Oct 2023  
**Unique Number** : 10711040 **Diagnosed** : 26 Oct 2023 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**APEX PIPELINE**  
P.O. BOX 580  
NITRO, WV  
US 25143  
Contact: KELLY TUCKER

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)

T: (304)204-0080  
F: (304)204-0083