



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[05W46080]

Machine Id
JOHN DEERE 160G 1FF160GXPKE057672

Component
Left Final Drive

Fluid
JOHN DEERE GL-5 80W90 (6 QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

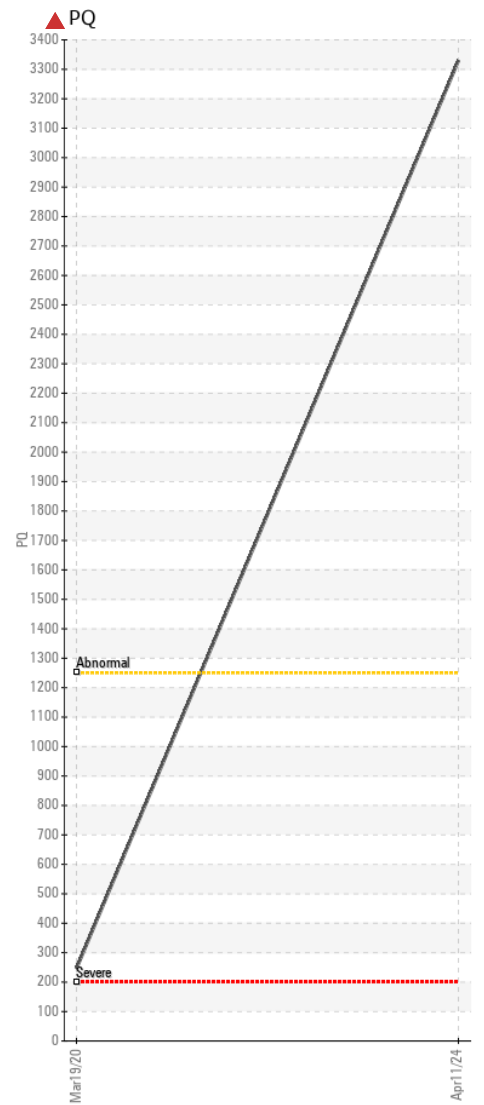
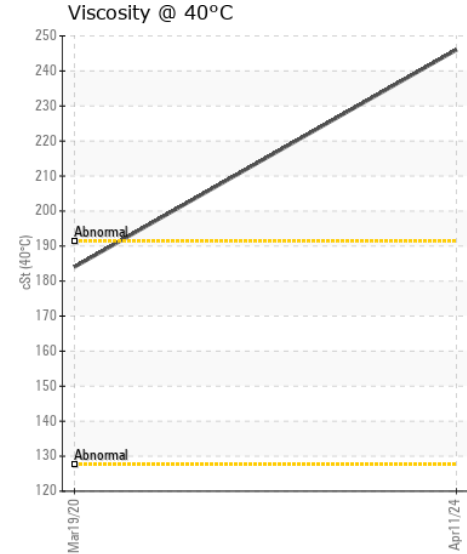
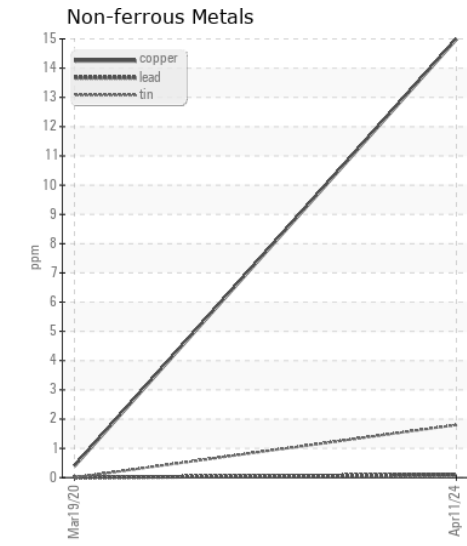
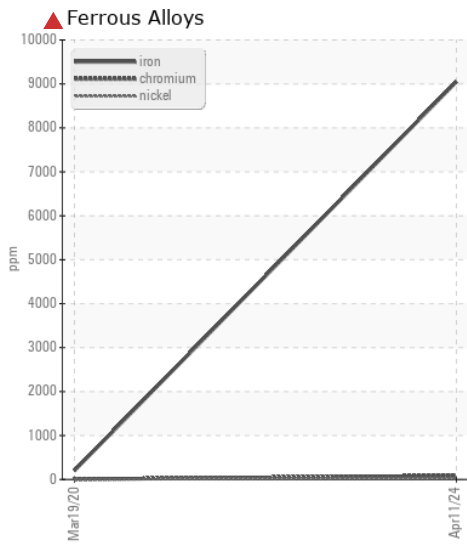
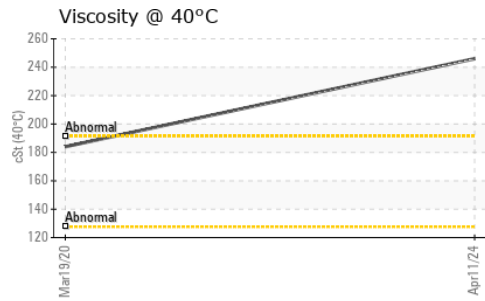
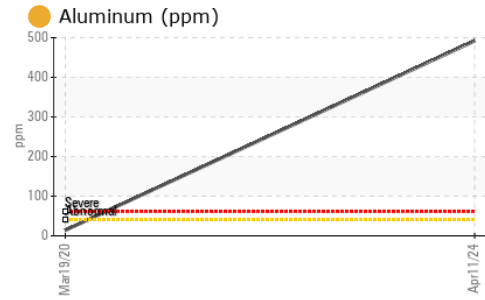
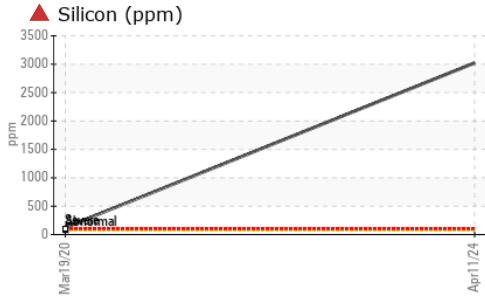
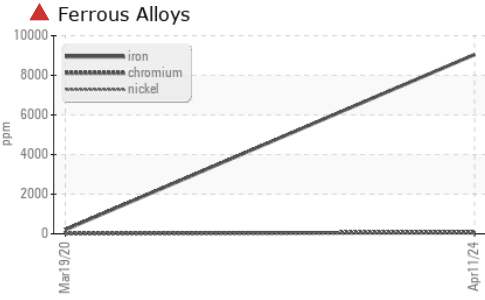
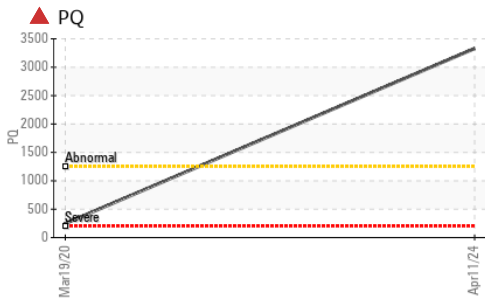
CONTAMINATION

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		JR0211162	JR0037878	---
Sample Date		Client Info		11 Apr 2024	19 Mar 2020	---
Machine Age	hrs	Client Info		4338	487	---
Oil Age	hrs	Client Info		4338	487	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				SEVERE	ABNORMAL	---
PQ		ASTM D8184	>1250	▲ 3330	247	---
Iron	ppm	ASTM D5185m	>750	▲ 9048	201	---
Chromium	ppm	ASTM D5185m	>9	▲ 86	4	---
Nickel	ppm	ASTM D5185m	>10	▲ 22	<1	---
Titanium	ppm	ASTM D5185m		81	2	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>40	● 492	14	---
Lead	ppm	ASTM D5185m	>15	<1	0	---
Copper	ppm	ASTM D5185m	>40	15	<1	---
Tin	ppm	ASTM D5185m	>10	2	0	---
Vanadium	ppm	ASTM D5185m		3	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 3023	▲ 123	---
Potassium	ppm	ASTM D5185m	>20	89	3	---
Water		WC Method	>0.075	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	---
Sodium	ppm	ASTM D5185m	>51	61	<1	---
Boron	ppm	ASTM D5185m		76	65	---
Barium	ppm	ASTM D5185m		9	5	---
Molybdenum	ppm	ASTM D5185m		7	0	---
Manganese	ppm	ASTM D5185m		88	8	---
Magnesium	ppm	ASTM D5185m		62	<1	---
Calcium	ppm	ASTM D5185m		126	23	---
Phosphorus	ppm	ASTM D5185m		443	450	---
Zinc	ppm	ASTM D5185m		41	19	---
Sulfur	ppm	ASTM D5185m		50474	10442	---
Visc @ 40°C	cSt	ASTM D445		246	184	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0211162 **Received** : 15 Apr 2024
Lab Number : 06149667 **Tested** : 16 Apr 2024
Unique Number : 10979745 **Diagnosed** : 18 Apr 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PQ)

JRE - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111

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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)