



WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL



Area
[W52665]
 Machine Id
JOHN DEERE 350GLC 1FF350GXLDE809738
 Component
Right Final Drive
 Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0224888	JR0068472	JRMC468152
Sample Date		Client Info		25 Jun 2024	01 Dec 2020	25 Jan 2019
Machine Age	hrs	Client Info		7956	5967	4456
Oil Age	hrs	Client Info		0	2000	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Moderate concentration of visible metal present. Gear wear is indicated.

PQ		ASTM D8184	>1250	744	1904	▲ 3300
Iron	ppm	ASTM D5185m	>750	▲ 2587	▲ 4103	▲ 5361
Chromium	ppm	ASTM D5185m	>9	▲ 16	▲ 28	▲ 46
Nickel	ppm	ASTM D5185m	>10	4	6	9
Titanium	ppm	ASTM D5185m		8	17	41
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>40	● 42	● 105	● 255
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	6	7	11
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	3
White Metal	scalar	*Visual	NONE	▲ MODER	▲ MODER	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

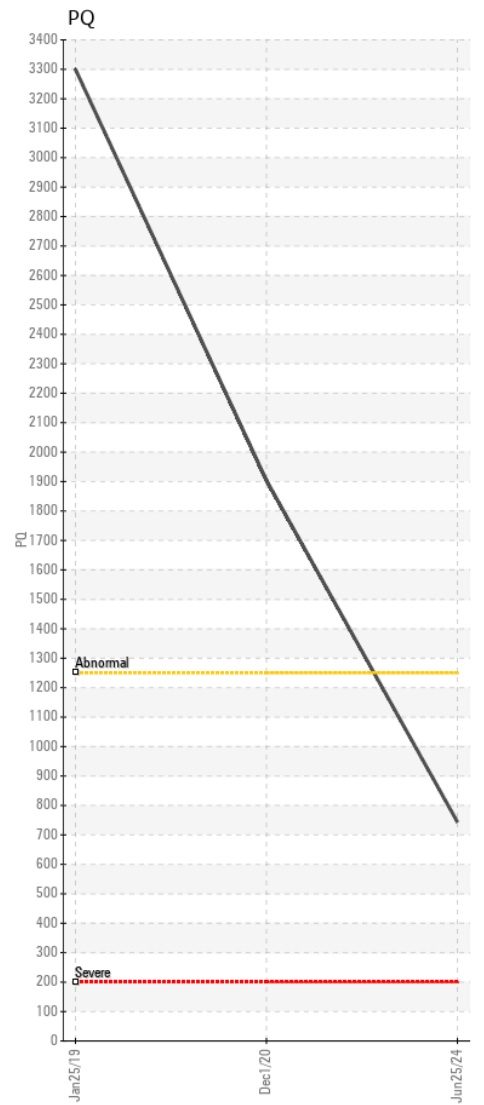
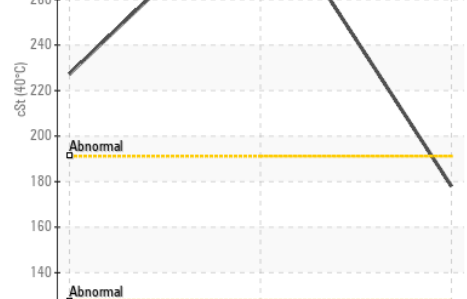
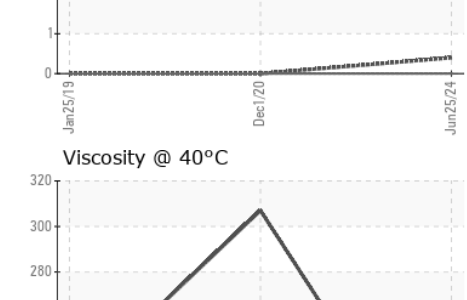
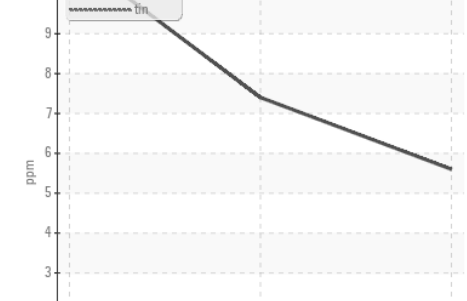
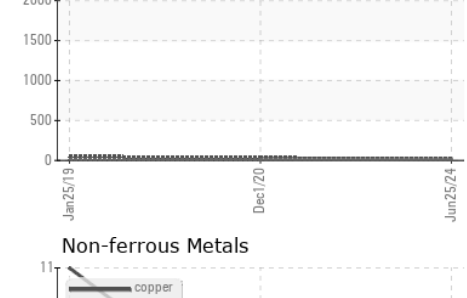
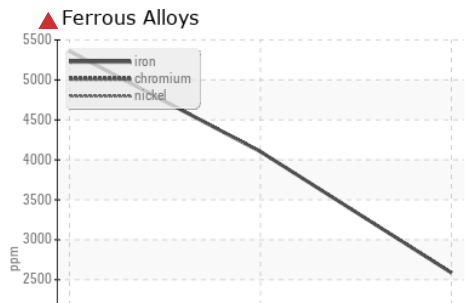
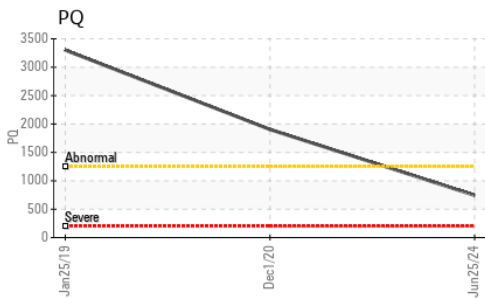
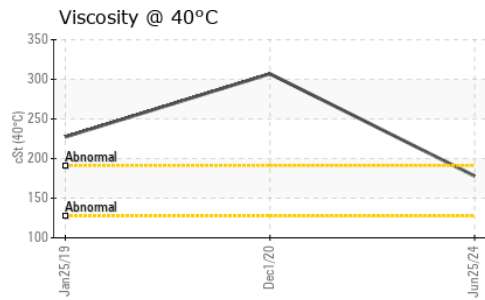
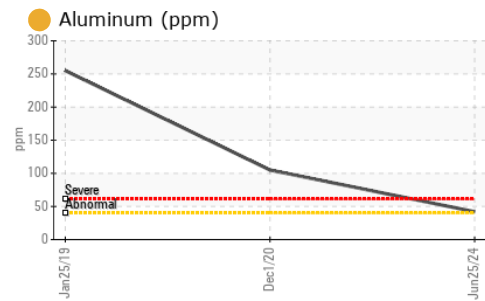
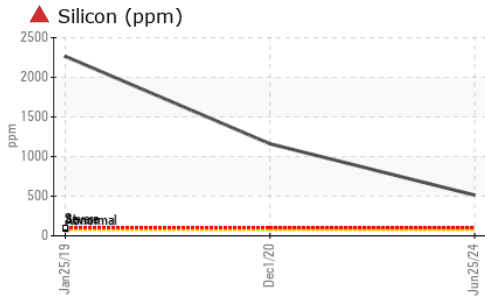
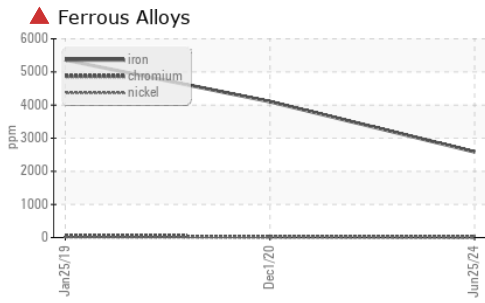
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 514	▲ 1161	▲ 2265
Potassium	ppm	ASTM D5185m	>20	12	5	66
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>51	2	5	10
Boron	ppm	ASTM D5185m		100	14	32
Barium	ppm	ASTM D5185m		<1	2	6
Molybdenum	ppm	ASTM D5185m		2	0	0
Manganese	ppm	ASTM D5185m		18	31	43
Magnesium	ppm	ASTM D5185m		3	7	15
Calcium	ppm	ASTM D5185m		6	15	29
Phosphorus	ppm	ASTM D5185m		1224	1613	310
Zinc	ppm	ASTM D5185m		17	20	38
Sulfur	ppm	ASTM D5185m		25584	23880	38429
Visc @ 40°C	cSt	ASTM D445		178	307	227.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0224888 **Received** : 01 Jul 2024
Lab Number : 06224810 **Tested** : 02 Jul 2024
Unique Number : 11103007 **Diagnosed** : 02 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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