



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area

[127472]

Machine Id

JOHN DEERE 350G 1FF350GXCKF813932

Component

Right Final Drive

Fluid

JOHN DEERE GL-5 80W90 (--- 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WE0007950	WE0006343	WE0004356
Sample Date		Client Info		27 Jun 2024	21 Feb 2024	29 Jun 2023
Machine Age	hrs	Client Info		5028	4418	3950
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	N/A
Sample Status				SEVERE	ABNORMAL	SEVERE

WEAR

Gear wear is indicated.

PQ		ASTM D8184	>1250	670	243	132
Iron	ppm	ASTM D5185m	>750	▲ 2353	▲ 754	▲ 1084
Chromium	ppm	ASTM D5185m	>9	▲ 18	7	▲ 9
Nickel	ppm	ASTM D5185m	>10	▲ 13	3	4
Titanium	ppm	ASTM D5185m		13	4	5
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>40	● 106	● 32	● 55
Lead	ppm	ASTM D5185m	>15	<1	0	0
Copper	ppm	ASTM D5185m	>40	4	<1	2
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

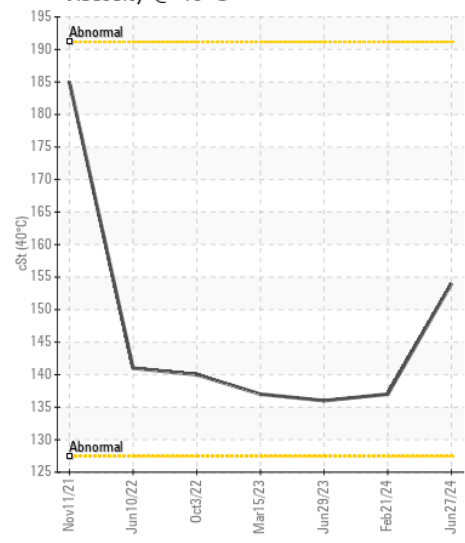
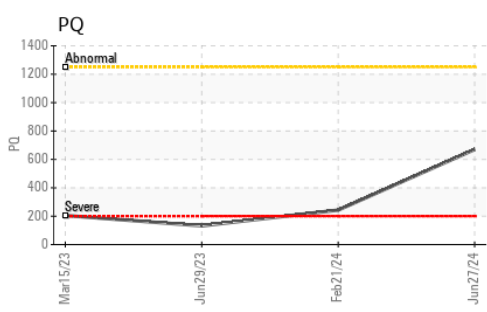
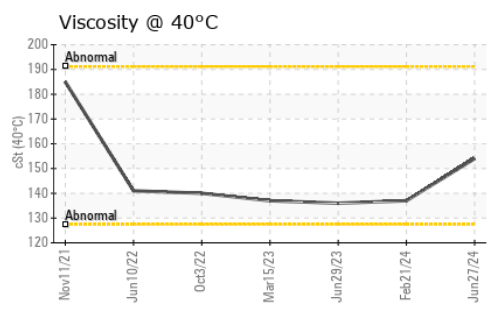
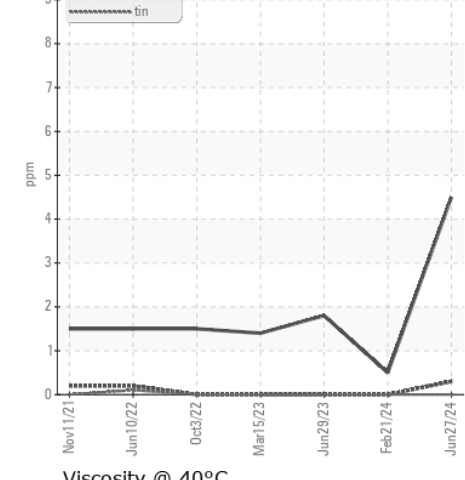
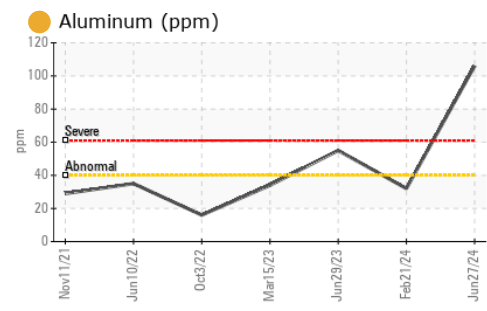
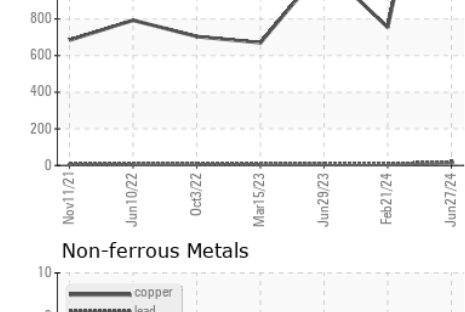
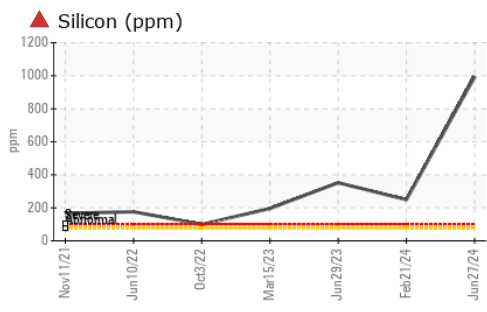
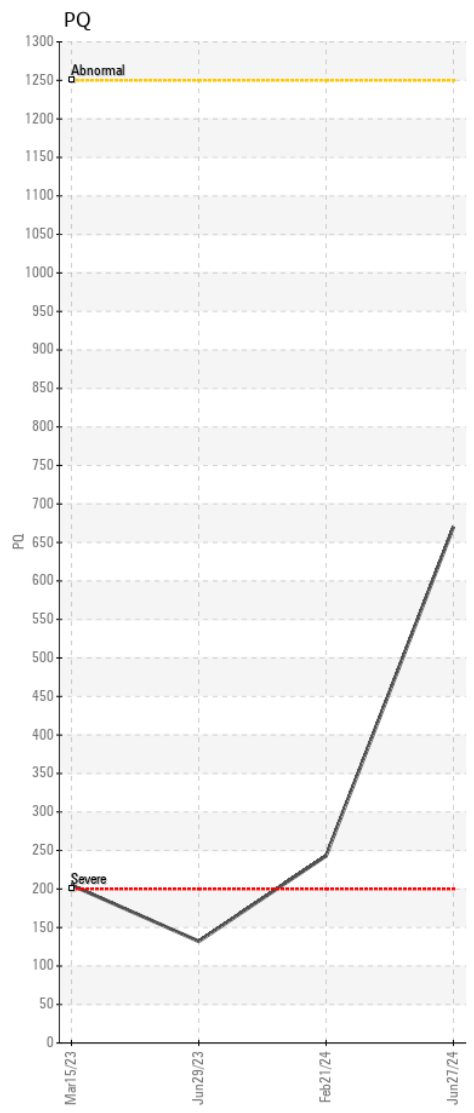
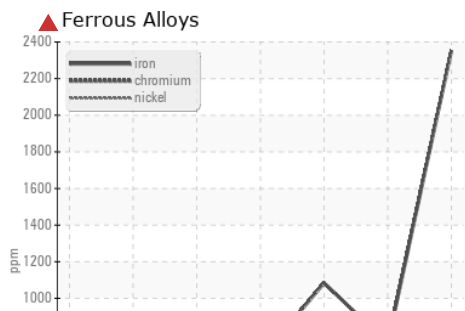
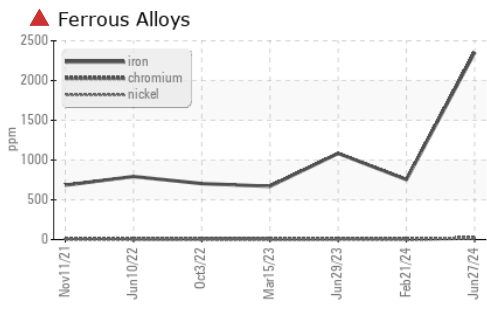
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>75	▲ 993	▲ 249	▲ 352
Potassium	ppm	ASTM D5185m	>20	13	3	5
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	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	0	<1	1
Boron	ppm	ASTM D5185m		223	243	229
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		3	0	<1
Manganese	ppm	ASTM D5185m		19	6	9
Magnesium	ppm	ASTM D5185m		13	8	1
Calcium	ppm	ASTM D5185m		92	35	12
Phosphorus	ppm	ASTM D5185m		851	1057	907
Zinc	ppm	ASTM D5185m		36	18	3
Sulfur	ppm	ASTM D5185m		16572	19517	21734
Visc @ 40°C	cSt	ASTM D445		154	137	136



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WE0007950 **Received** : 02 Jul 2024
Lab Number : 06226491 **Tested** : 03 Jul 2024
Unique Number : 11109984 **Diagnosed** : 05 Jul 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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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)