



WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
MARGINAL
NORMAL

Machine Id
JOHN DEERE 350G 1FF350GXJKF813760
Component
Right Final Drive
Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0212014	JR0211582	JR0168896
Sample Date		Client Info		09 Jul 2024	05 Jun 2024	21 Apr 2023
Machine Age	hrs	Client Info		4010	3978	3439
Oil Age	hrs	Client Info		2	0	3439
Filter Age	hrs	Client Info		2	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		Changed	N/A	None
Sample Status				ATTENTION	SEVERE	SEVERE

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>1250	202	1609	1344
Iron	ppm	ASTM D5185m	>750	221	▲ 8236	▲ 5662
Chromium	ppm	ASTM D5185m	>9	2	▲ 71	▲ 43
Nickel	ppm	ASTM D5185m	>10	0	▲ 17	7
Titanium	ppm	ASTM D5185m		2	53	14
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>40	● 17	● 257	● 109
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>40	<1	17	10
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	2	1
White Metal	scalar	*Visual	NONE	MODER	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

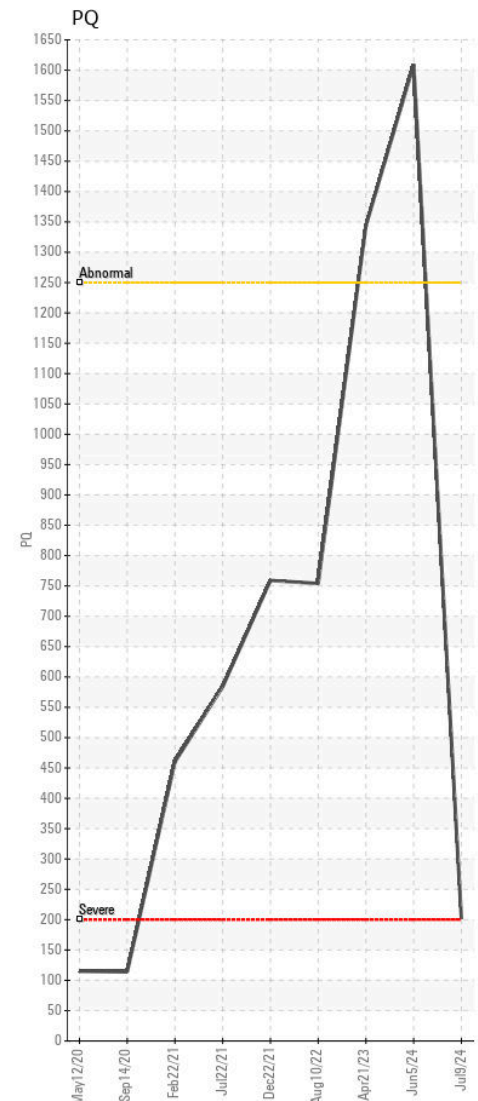
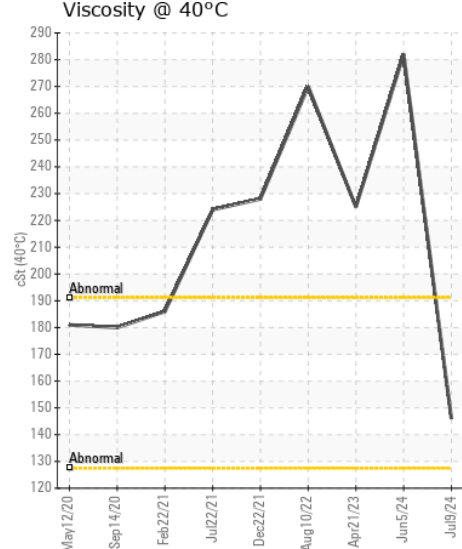
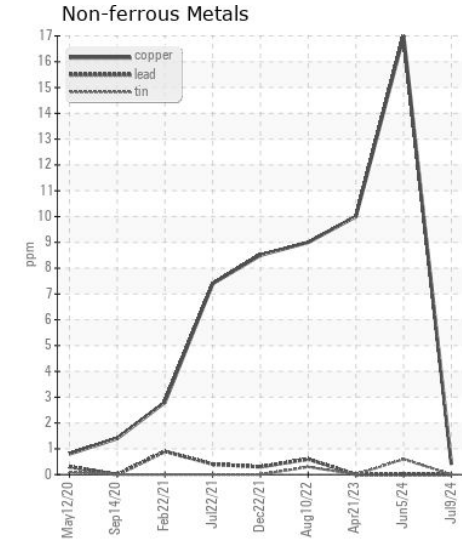
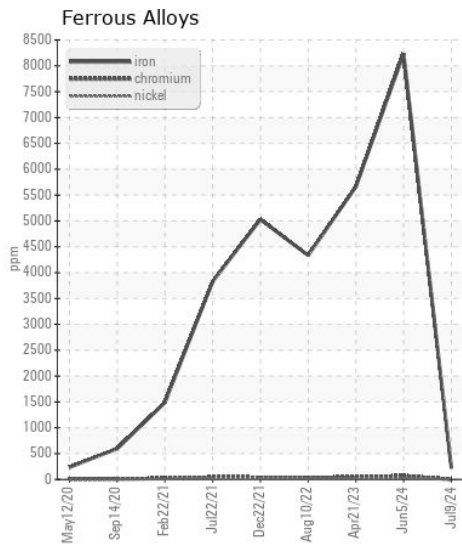
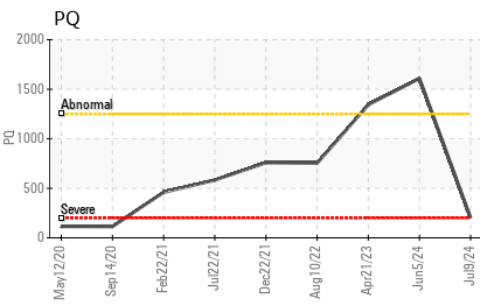
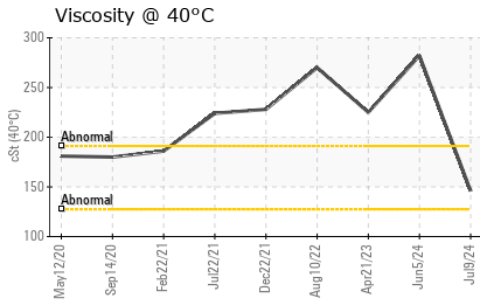
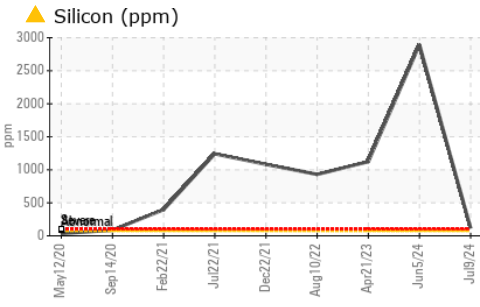
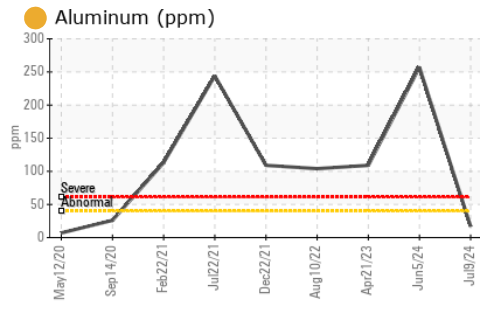
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Suspect carryover.

Silicon	ppm	ASTM D5185m	>75	▲ 118	▲ 2894	▲ 1123
Potassium	ppm	ASTM D5185m	>20	<1	28	11
Water		WC Method	>0.075	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	4	7	4
Boron	ppm	ASTM D5185m		0	26	20
Barium	ppm	ASTM D5185m		0	2	<1
Molybdenum	ppm	ASTM D5185m		0	7	5
Manganese	ppm	ASTM D5185m		2	67	42
Magnesium	ppm	ASTM D5185m		4	19	19
Calcium	ppm	ASTM D5185m		71	49	31
Phosphorus	ppm	ASTM D5185m		2175	2031	1797
Zinc	ppm	ASTM D5185m		13	26	15
Sulfur	ppm	ASTM D5185m		29395	29327	23593
Visc @ 40°C	cSt	ASTM D445		146	▲ 282	▲ 225



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212014
Lab Number : 06232446
Unique Number : 11115939
Test Package : CONST (Additional Tests: PQ)
Received : 10 Jul 2024
Tested : 11 Jul 2024
Diagnosed : 12 Jul 2024 - Doug Bogart

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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)