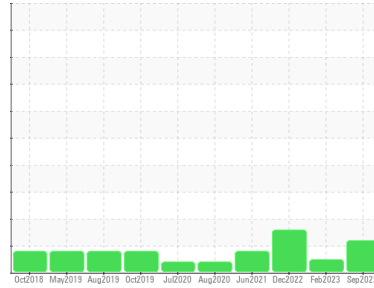


PROBLEM SUMMARY

Sample Rating Trend



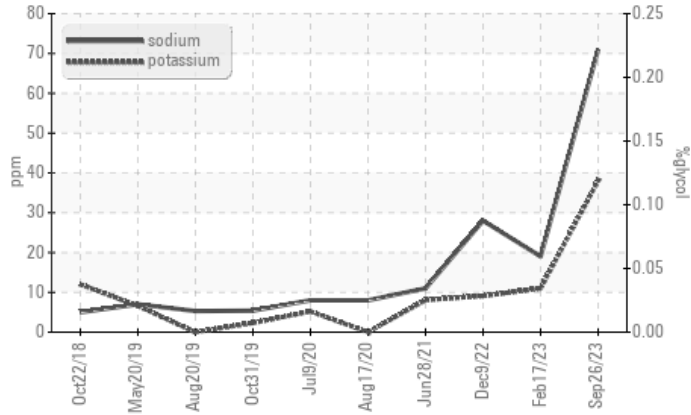
GLYCOL



Machine Id
JOHN DEERE 350G 1FF350GXVCE808679
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Glycol Contamination



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	NORMAL	ABNORMAL
Sodium	ppm	ASTM D5185m	>31	▲ 71	19	28

Customer Id: JAMASH
Sample No.: JR0179314
Lab Number: 05966055
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

17 Feb 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



09 Dec 2022 Diag: Angela Borella

WEAR



Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper and iron ppm levels are abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

view report



28 Jun 2021 Diag: Don Baldrige

WEAR

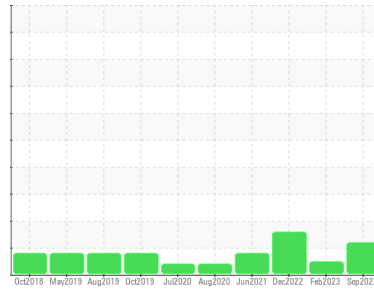


Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other component wear rates are normal for time on oil. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report



Machine Id
JOHN DEERE 350G 1FF350GXVCE808679
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)


DIAGNOSIS
▲ Recommendation

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

Wear

All component wear rates are normal.

Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0179314	JR0147996	JR0148245
Sample Date	Client Info		26 Sep 2023	17 Feb 2023	09 Dec 2022
Machine Age	hrs	Client Info	8979	8468	8350
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			ATTENTION	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<1.0	<1.0	<1.0

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>51	36	24	▲ 65
Chromium	ppm	ASTM D5185m	>11	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	1	<1	4
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	4	2	6
Lead	ppm	ASTM D5185m	>26	<1	<1	4
Copper	ppm	ASTM D5185m	>26	5	17	▲ 41
Tin	ppm	ASTM D5185m	>4	<1	<1	2
Antimony	ppm	ASTM D5185m		---	---	---
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		202	224	86
Barium	ppm	ASTM D5185m		0	2	0
Molybdenum	ppm	ASTM D5185m		256	230	230
Manganese	ppm	ASTM D5185m		<1	<1	1
Magnesium	ppm	ASTM D5185m		801	695	737
Calcium	ppm	ASTM D5185m		1367	1417	1611
Phosphorus	ppm	ASTM D5185m		896	870	830
Zinc	ppm	ASTM D5185m		1075	1012	1113
Sulfur	ppm	ASTM D5185m		2986	2946	3061

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	9	7	10
Sodium	ppm	ASTM D5185m	>31	▲ 71	19	28
Potassium	ppm	ASTM D5185m	>20	38	11	9
Glycol	%	*ASTM D2982		NEG	NEG	NEG

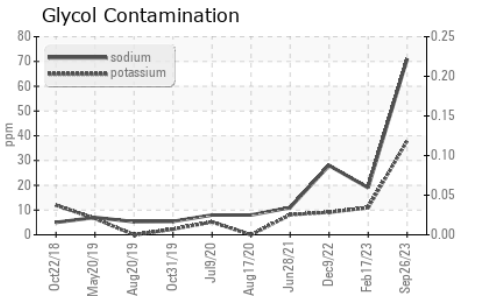
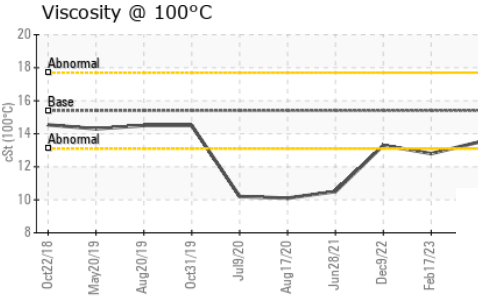
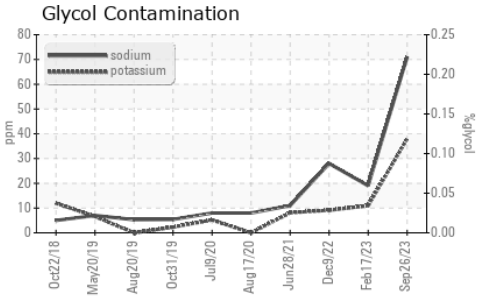
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.9	0.4	1.4
Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.4	11.4
Sulfation	Abs.1mm	*ASTM D7415	>30	22.4	20.3	27.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs.1mm	*ASTM D7414	>25	15.5	14.5	19.3
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.6	9.9	9.8

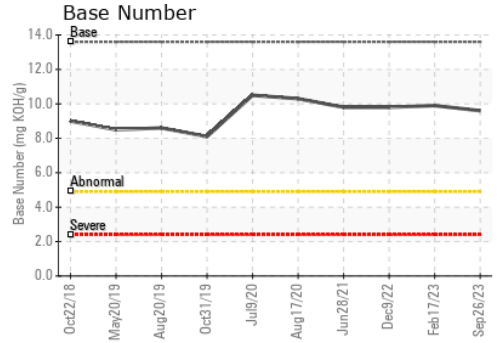
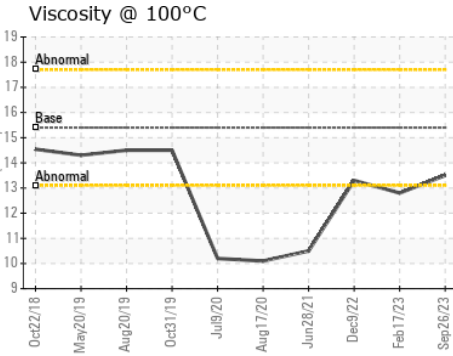
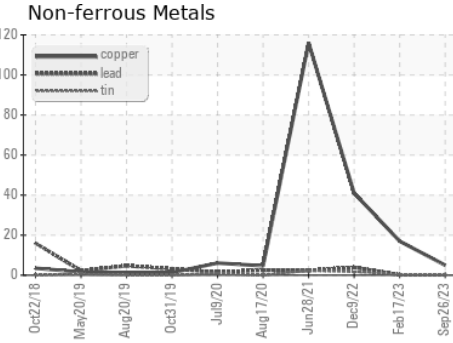
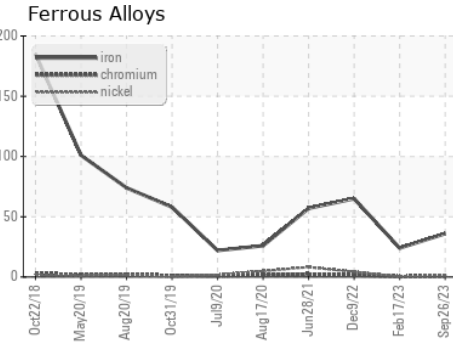
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.4	13.5	12.8	13.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0179314 **Received** : 02 Oct 2023
Lab Number : **05966055** **Diagnosed** : 04 Oct 2023
Unique Number : 10672606 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: Glycol, TBN)

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 ASHLAND, VA
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 Contact: DAVID ZIEG
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 F: (804)798-0292

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)