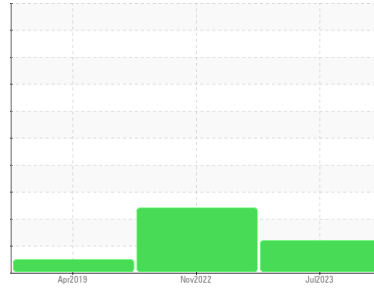


PROBLEM SUMMARY

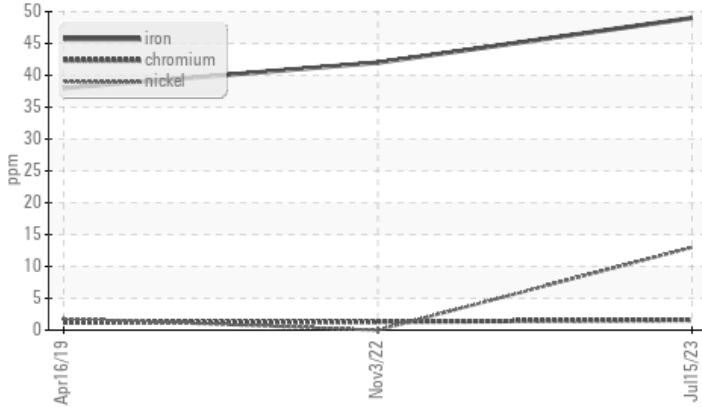
Area
ROCKVILLE
Machine Id
JOHN DEERE 350G M08-0875 1FF350GXCGF811198
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

Sample Rating Trend

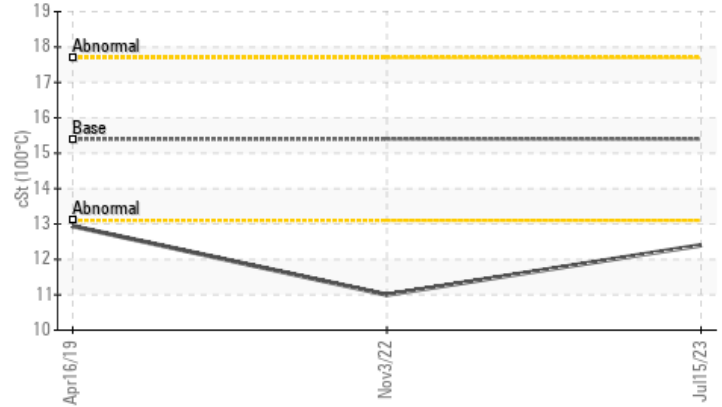


COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



▲ Viscosity @ 100°C



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	SEVERE	NORMAL
Nickel	ppm	ASTM D5185m	>5	▲ 13	0	2
Visc @ 100°C	cSt	ASTM D445	15.4	▲ 12.4	▲ 11.0	12.94

Customer Id: LUCMIL
Sample No.: JR0165555
Lab Number: 05901090
Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldrige +1
don.b505@comcast.net

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

03 Nov 2022 Diag: Angela Borella

FUEL



We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

[view report](#)



16 Apr 2019 Diag: Doug Bogart

NORMAL

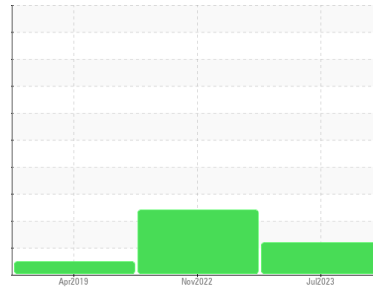


Resample at the next service interval to monitor. All component wear rates are normal. No evidence of fuel present in the oil. There is no indication of any contamination in the oil. Additive levels do not indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

[view report](#)



OIL ANALYSIS REPORT

Sample Rating Trend

WEAR


Area
ROCKVILLE
Machine Id
JOHN DEERE 350G M08-0875 1FF350GXCGF811198
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- QTS)

DIAGNOSIS
Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Valve wear is indicated. All other component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0165555	JR0125502	JRMC436295
Sample Date	Client Info		15 Jul 2023	03 Nov 2022	16 Apr 2019
Machine Age	hrs	Client Info	6725	5597	2779
Oil Age	hrs	Client Info	0	400	500
Oil Changed	Client Info		Changed	Not Changd	N/A
Sample Status			ABNORMAL	SEVERE	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >51	49	42	38
Chromium	ppm	ASTM D5185m >11	2	1	1
Nickel	ppm	ASTM D5185m >5	▲ 13	0	2
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >31	2	2	8
Lead	ppm	ASTM D5185m >26	0	<1	<1
Copper	ppm	ASTM D5185m >26	2	1	18
Tin	ppm	ASTM D5185m >4	0	<1	<1
Antimony	ppm	ASTM D5185m	---	---	0
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	33	43	17
Barium	ppm	ASTM D5185m	0	2	<1
Molybdenum	ppm	ASTM D5185m	97	60	320
Manganese	ppm	ASTM D5185m	2	<1	<1
Magnesium	ppm	ASTM D5185m	1080	904	1058
Calcium	ppm	ASTM D5185m	1153	944	1133
Phosphorus	ppm	ASTM D5185m	1017	917	1181
Zinc	ppm	ASTM D5185m	1309	1101	1247
Sulfur	ppm	ASTM D5185m	3770	3223	3191

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >22	4	5	5
Sodium	ppm	ASTM D5185m >31	4	0	3
Potassium	ppm	ASTM D5185m >20	<1	2	1
Fuel	%	ASTM D3524 >2.1	0.2	7.4	<1.0

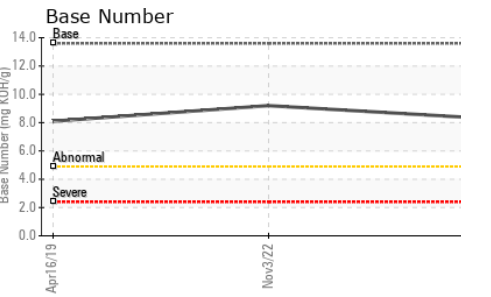
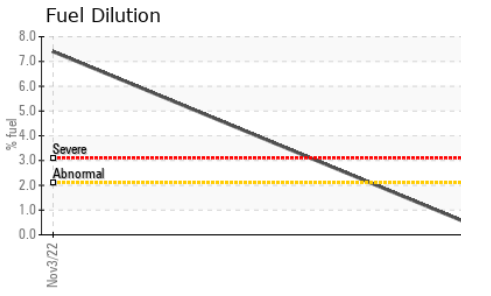
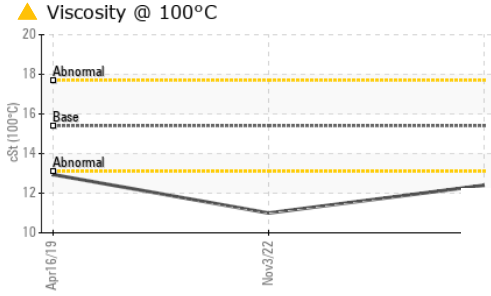
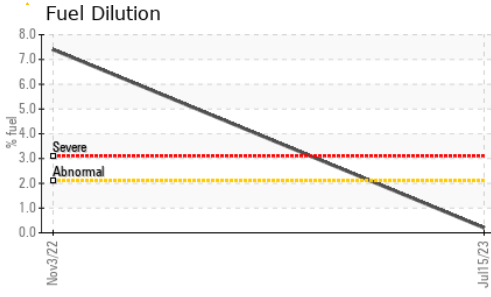
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.6	0.3
Nitration	Abs/cm	*ASTM D7624 >20	8.9	11.1	7.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.4	22.4	20

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.2	18.9	15.4
Base Number (BN)	mg KOH/g	ASTM D2896 13.6	8.3	9.2	8.1

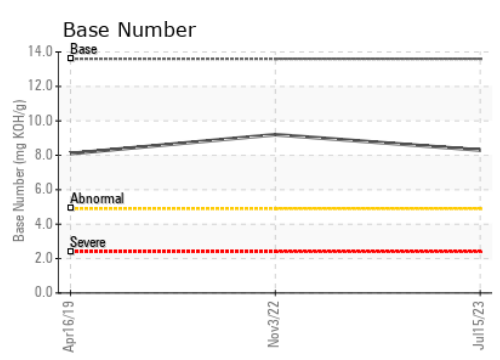
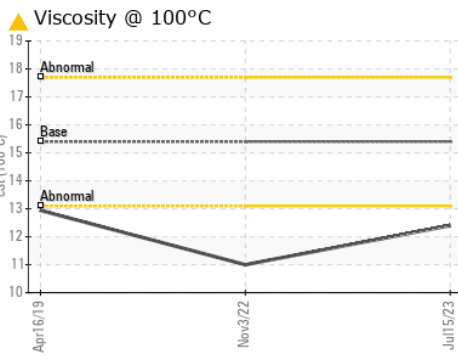
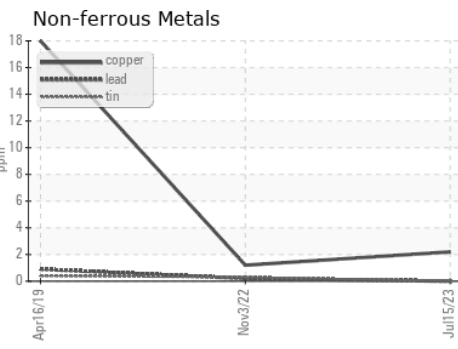
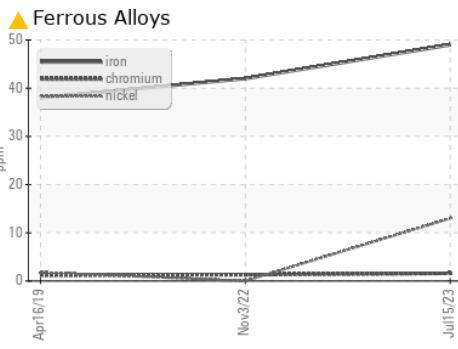
OIL ANALYSIS REPORT



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	▲ 12.4	▲ 11.0	12.94

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0165555 **Received** : 18 Jul 2023
Lab Number : 05901090 **Diagnosed** : 19 Jul 2023
Unique Number : 10562446 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PercentFuel, TBN)

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 US 22514
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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)