



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 350G 1FF350GXVJF812433
 Component
Diesel Engine
 Fluid
{not provided} (--- QTS)

RECOMMENDATION

No corrective action is recommended at this time. 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		JR0222186	JR0212573	JR0186280
Sample Date		Client Info		15 Jul 2024	07 May 2024	14 Nov 2023
Machine Age	hrs	Client Info		5993	5841	5501
Oil Age	hrs	Client Info		492	5501	341
Filter Age	hrs	Client Info		492	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

Copper and iron ppm levels are abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Iron	ppm	ASTM D5185m	>51	▲ 56	37	45
Chromium	ppm	ASTM D5185m	>11	4	2	<1
Nickel	ppm	ASTM D5185m	>5	0	1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>31	5	4	3
Lead	ppm	ASTM D5185m	>26	<1	2	2
Copper	ppm	ASTM D5185m	>26	▲ 253	1	2
Tin	ppm	ASTM D5185m	>4	0	2	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

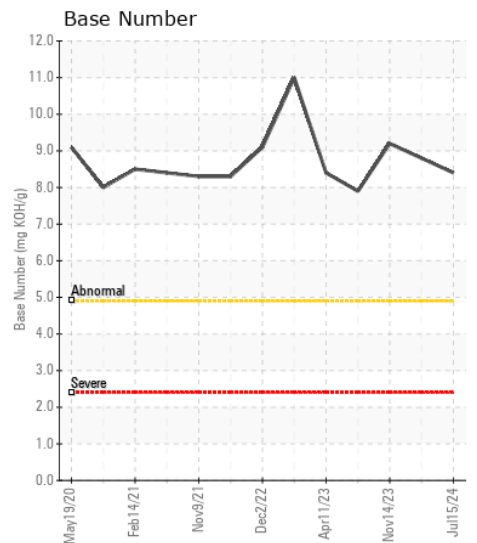
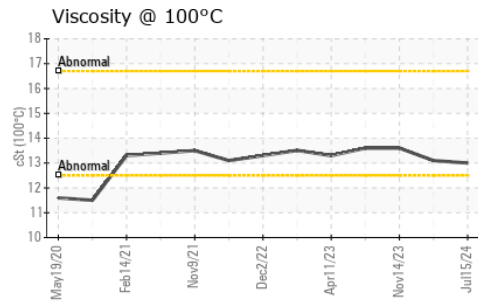
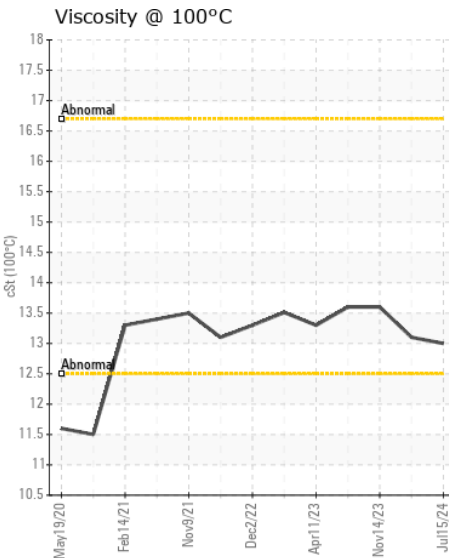
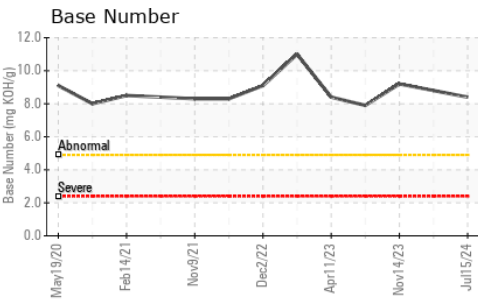
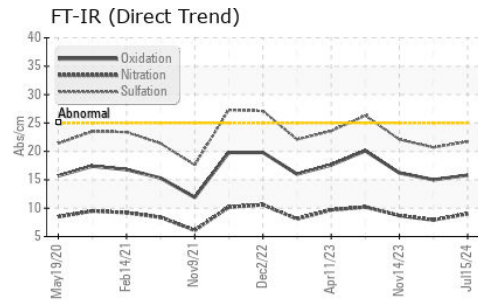
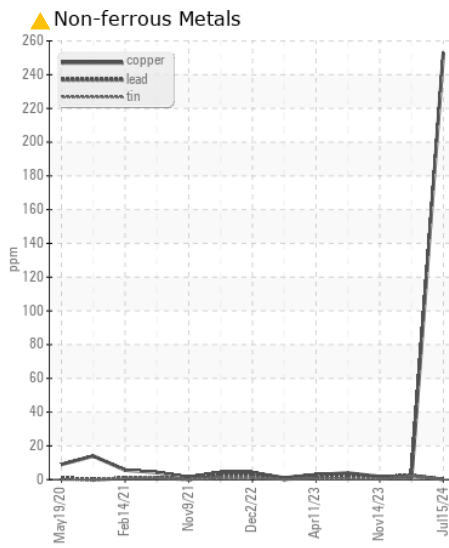
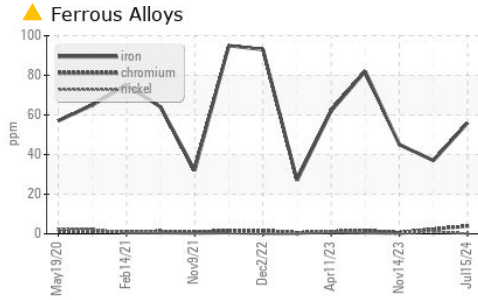
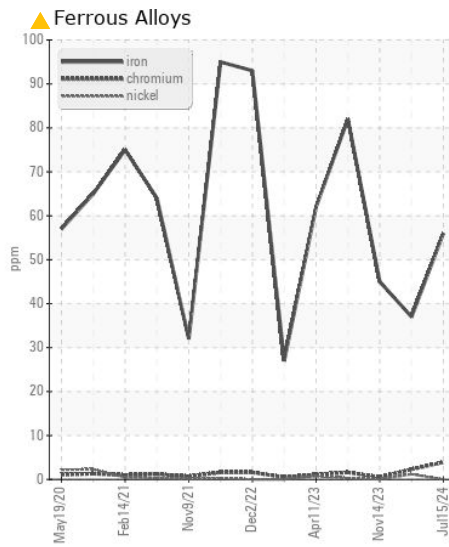
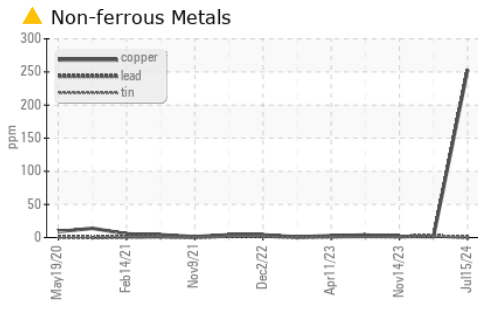
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	10	8	9
Potassium	ppm	ASTM D5185m	>20	5	5	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol	%	*ASTM D2982		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.0	7.9	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	20.7	22.1
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	>0.21	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>31	0	3	2
Boron	ppm	ASTM D5185m		190	191	170
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		259	223	258
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m		825	884	876
Calcium	ppm	ASTM D5185m		1398	1539	1470
Phosphorus	ppm	ASTM D5185m		779	988	959
Zinc	ppm	ASTM D5185m		1073	1155	1159
Sulfur	ppm	ASTM D5185m		2703	3866	3193
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.0	16.2
Base Number (BN)	mg KOH/g	ASTM D2896		8.4	8.8	9.2
Visc @ 100°C	cSt	ASTM D445		13.0	13.1	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0222186 **Received** : 16 Jul 2024
Lab Number : 06237636 **Tested** : 18 Jul 2024
Unique Number : 11126470 **Diagnosed** : 18 Jul 2024 - Sean Felton
Test Package : CONST (Additional Tests: Glycol, TBN)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

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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