



Area

[46912]

Machine Id

JOHN DEERE 1FF350PAHNF000216

Component

Pump Drive

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 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 recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0217871	JR0192334	JR0172743
Sample Date		Client Info		29 May 2024	09 Nov 2023	11 Jul 2023
Machine Age	hrs	Client Info		1985	986	468
Oil Age	hrs	Client Info		999	986	468
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		59	17	22
Iron	ppm	ASTM D5185m	>151	▲ 283	62	40
Chromium	ppm	ASTM D5185m	>11	6	2	1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		3	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	● 14	<1	1
Lead	ppm	ASTM D5185m	>51	0	0	<1
Copper	ppm	ASTM D5185m	>51	0	<1	<1
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

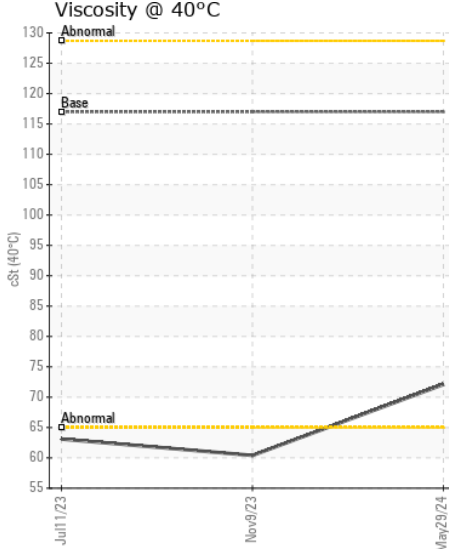
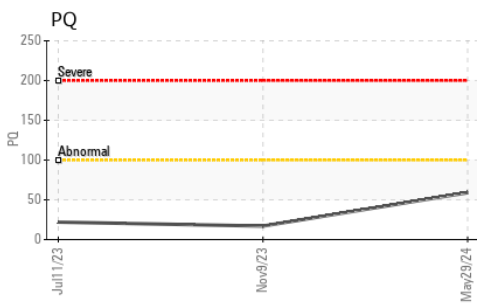
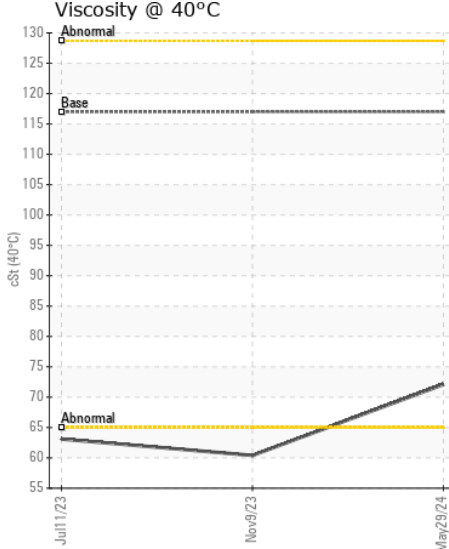
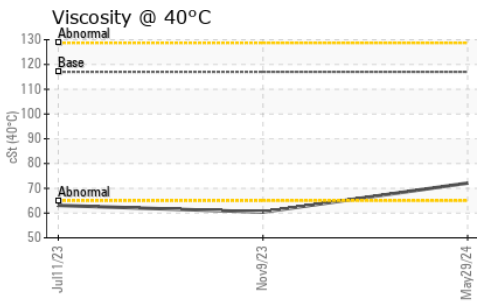
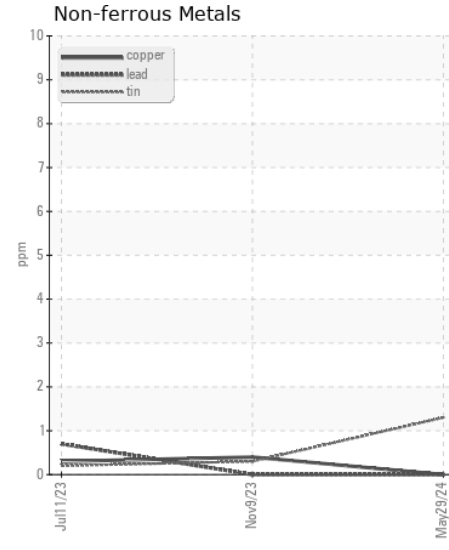
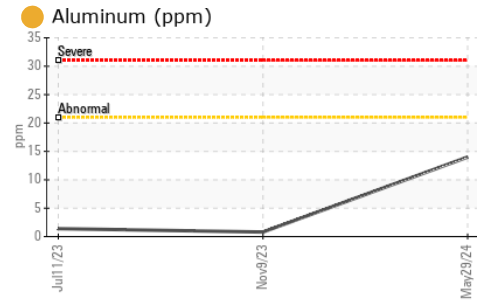
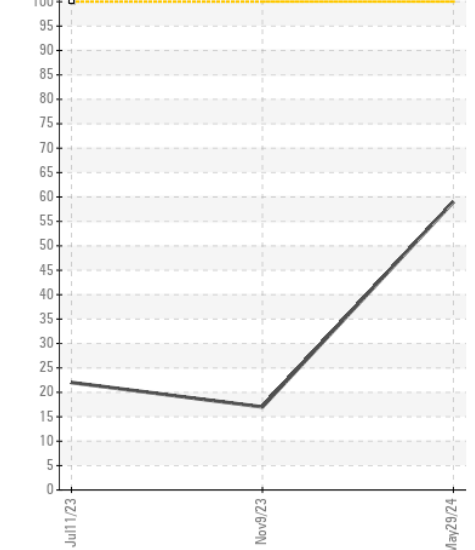
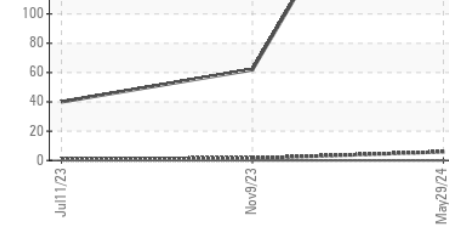
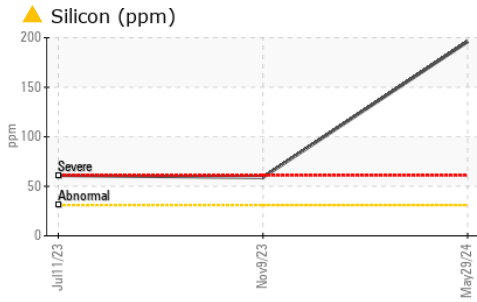
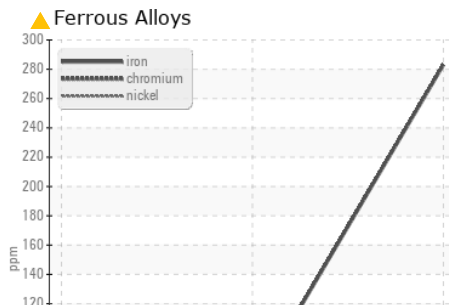
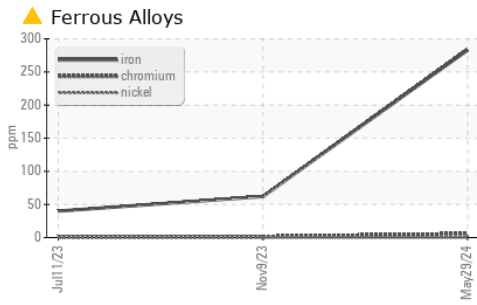
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

Silicon	ppm	ASTM D5185m	>31	▲ 196	▲ 59	▲ 61
Potassium	ppm	ASTM D5185m	>20	2	<1	3
Water		WC Method	>0.1	NEG	NEG	NEG
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	3	4	4
Boron	ppm	ASTM D5185m		358	63	63
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		260	100	102
Manganese	ppm	ASTM D5185m		6	4	3
Magnesium	ppm	ASTM D5185m		824	0	21
Calcium	ppm	ASTM D5185m		1596	3634	3999
Phosphorus	ppm	ASTM D5185m		1031	1140	1150
Zinc	ppm	ASTM D5185m		1044	1242	1314
Sulfur	ppm	ASTM D5185m		4279	7801	9602
Visc @ 40°C	cSt	ASTM D445	117	72.1	60.4	63.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0217871 **Received** : 31 May 2024
Lab Number : 06196945 **Tested** : 03 Jun 2024
Unique Number : 11059068 **Diagnosed** : 03 Jun 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

CWS-STRITTMATTER
 9102 OWENS DR
 MANASSAS PARK, VA
 US 20111

Contact: EDDIE GARRETSON
 egarretson@strittmattercompanies.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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