**WEAR CONTAMINATION FLUID CONDITION** 

**SEVERE ABNORMAL NORMAL** 

[05W46514]

## JOHN DEERE 1FF350GXPKF814131

**Pump Drive** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1 GAL)

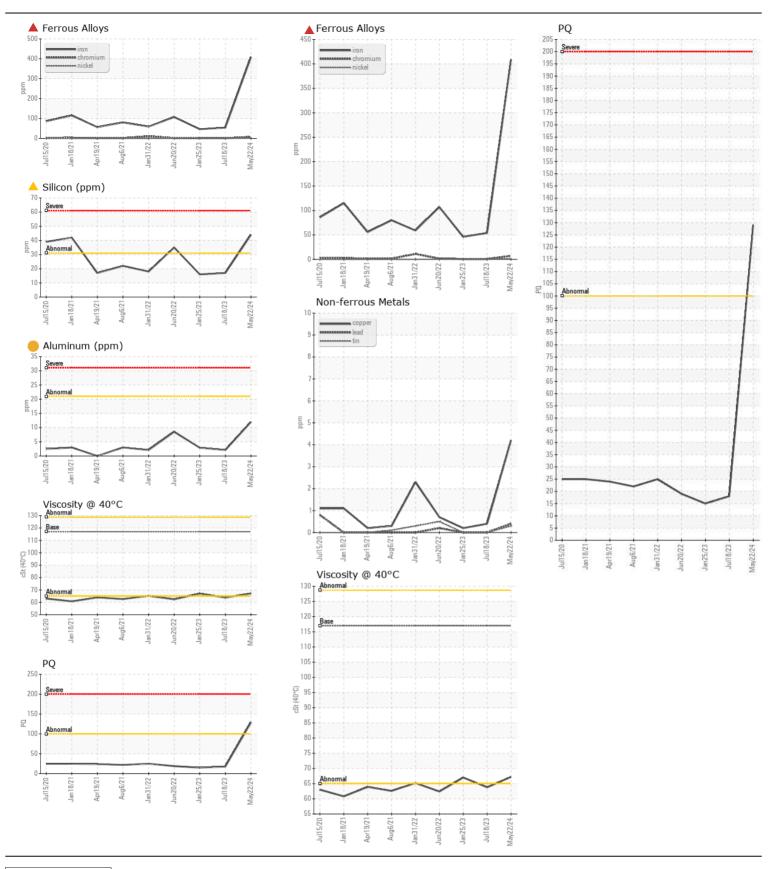
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (1	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0214566	JR0170066	JR0160451
	Sample Date		Client Info		22 May 2024	18 Jul 2023	25 Jan 2023
	Machine Age	hrs	Client Info		4980	3941	3430
	Oil Age	hrs	Client Info		1039	0	484
	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				SEVERE	ABNORMAL	NORMAL
WEAR	PQ		ASTM D8184		129	18	15
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>151	<b>4</b> 09	54	46
deal wear is indicated.	Chromium	ppm	ASTM D5185m	>11	7	<1	<1
	Nickel	ppm	ASTM D5185m	>10	<1	0	0
	Titanium	ppm	ASTM D5185m		2	<1	<1
	Silver	ppm	ASTM D5185m		1	0	0
	Aluminum	ppm	ASTM D5185m	>21	<u> </u>	2	3
	Lead	ppm	ASTM D5185m	>51	<1	0	0
	Copper	ppm	ASTM D5185m	>51	4	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	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 aluminasilicate (coarse dirt) ingress.	Silicon	ppm	ASTM D5185m	>31	<u> </u>	17	16
	Potassium	ppm	ASTM D5185m	>20	339	0	0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	Sodium	ppm	ASTM D5185m	>51	40	2	3
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m		258	298	319
	Barium	ppm	ASTM D5185m		3	0	<1
	Molybdenum	ppm	ASTM D5185m		216	240	253
	Manganese	ppm	ASTM D5185m		6	1	1
	Magnesium	ppm	ASTM D5185m		709	786	786
	Calcium	ppm	ASTM D5185m		1308	1432	1437
	Phosphorus	ppm	ASTM D5185m		907	922	903
	Zinc	ppm	ASTM D5185m		954	978	972
	Sulfur	ppm	ASTM D5185m		3139	3846	3740

Visc @ 40°C

ASTM D445 117

67.2

67.0







Certificate L2367

Laboratory Sample No. Lab Number Unique Number : 11048041

: JR0214566 : 06191289

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 29 May 2024

: 24 May 2024

: 29 May 2024 - Sean Felton

FITZGERALD EXCAVATING PO BOX 2168 WINCHESTER, VA

US 22604

Contact: Service Manager

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)

T: F: