WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

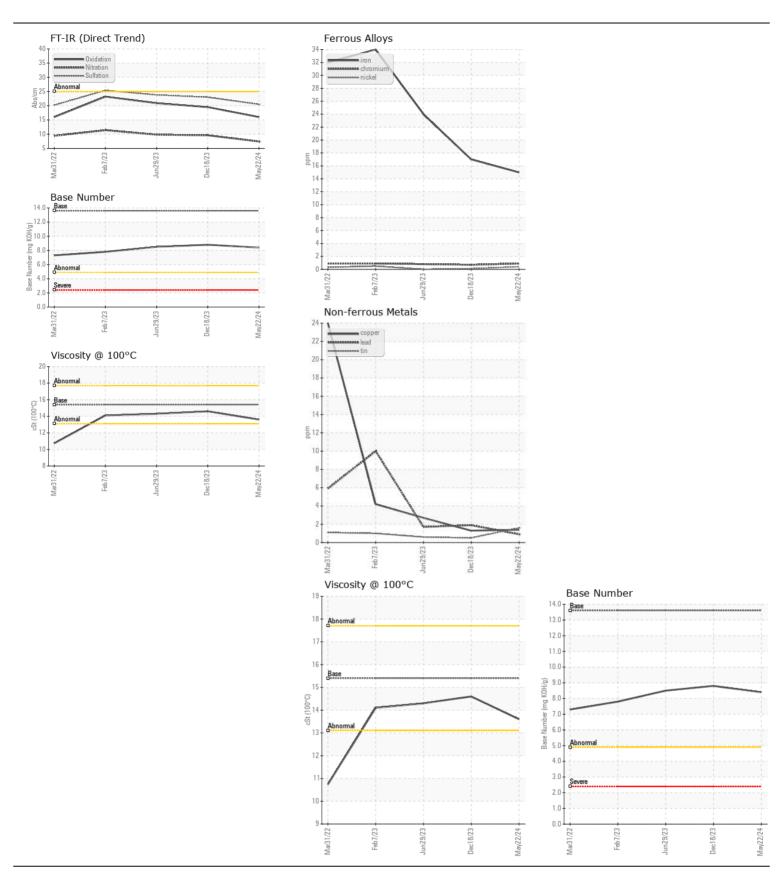
[46990]

JOHN DEERE 50G 1FF050GXTMH293996

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (8 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214442	JR0195931	JR0176356
	Sample Date		Client Info		22 May 2024	18 Dec 2023	29 Jun 202
	Machine Age	hrs	Client Info		2968	2430	1926
	Oil Age	hrs	Client Info		2464	504	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	15	17	24
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	70	<1	<1	<1
	Silver	ppm	ASTM D5185m	\3	<1	0	0
	Aluminum	ppm	ASTM D5185m		6	6	7
	Lead	ppm	ASTM D5185m		<1	2	2
	Copper	ppm	ASTM D5185m		1	1	3
	Tin	ppm	ASTM D5185m		2	<1	<1
	Vanadium	ppm	ASTM D5185m	77	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		14	17	22
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	2	4
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.3	0.4
	Nitration	Abs/cm	*ASTM D7624		7.4	9.6	9.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	23.0	23.8
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<1	<1	1
	Boron	ppm	ASTM D5185m		265	250	205
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		227	266	250
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		793	843	767
	Calcium	ppm	ASTM D5185m		1635	1450	1417
	Phosphorus	ppm	ASTM D5185m		959	880	880
	Zinc	ppm	ASTM D5185m		1194	1151	1074
	Sulfur	ppm	ASTM D5185m		3479	3087	3100
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	19.5	20.9
	Base Number (BN)				8.4	8.8	8.5







Certificate L2367

Report Id: BSSWAR [WUSCAR] 06189950 (Generated: 05/25/2024 00:18:11) Rev: 1

Laboratory Sample No.

: JR0214442 Lab Number : 06189950 Unique Number : 11046702

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 23 May 2024 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 25 May 2024

: 25 May 2024 - Wes Davis

Contact: DANNY HUFF dhuff@bandssite.com T: (540)270-3203

B & S SITE DEVLEOPMENT

7800 PINEY BRANCH LANE

* - 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)

Submitted By: TECHNICIAN ACCOUNT

BRISTOW, VA

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US 20136