

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

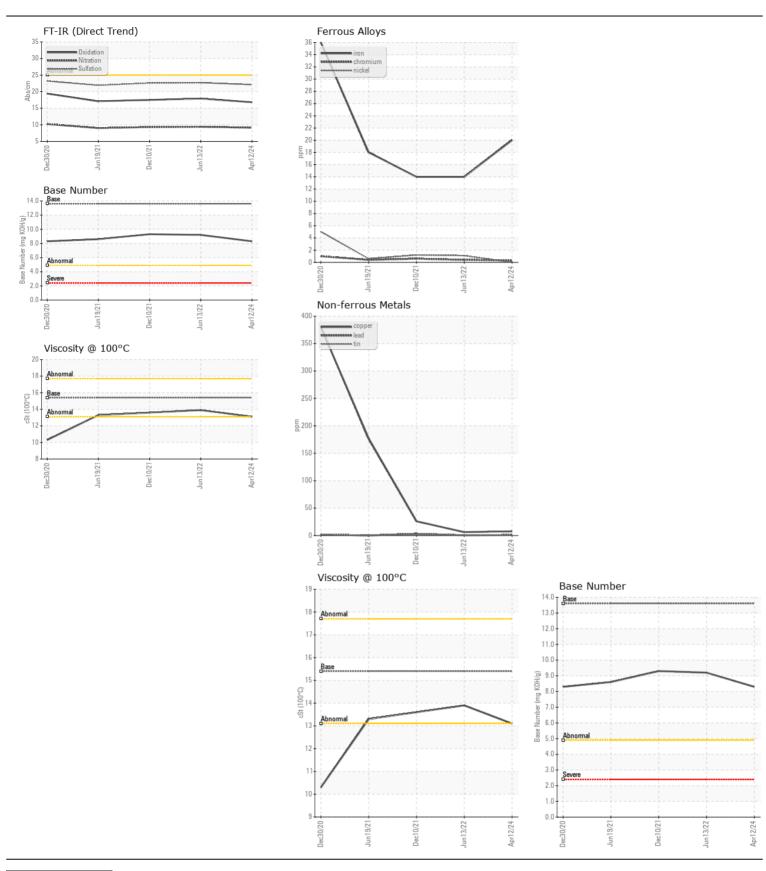
Machine Id

JOHN DEERE 250G 1FF250GXLKF611311

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0032255	LEC0032250	LEC002479
	Sample Date		Client Info		12 Apr 2024	13 Jun 2022	10 Dec 202
	Machine Age	hrs	Client Info		4000	2000	1500
	Oil Age	hrs	Client Info		1000	500	500
	Filter Age	hrs	Client Info		1000	500	1500
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	20	14	14
WEAT	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	1	1
	Titanium	ppm	ASTM D5185m	/5	0	<1	<1
	Silver	ppm	ASTM D5185m	^3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	3
	Lead		ASTM D5185m		<1	<1	3
	Copper	ppm	ASTM D5185m		8	6	26
	Tin	ppm	ASTM D5185m		<1	<1	2
	Vanadium	ppm	ASTM D5185m	>4	<1	<1	<1
	White Metal	ppm	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Tellow Metal	scalar	Visuai	INOINL	·····	INOINL	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	6	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	2
	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	>3	0.3	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.1	9.4	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.7	22.6
	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	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	2	2
ESIB SSRBITION	Boron	ppm	ASTM D5185m		218	259	226
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		<1	0	3
	Molybdenum	ppm	ASTM D5185m		250	241	253
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		814	721	845
	Calcium	ppm	ASTM D5185m		1600	1389	1478
	Phosphorus	ppm	ASTM D5185m		927	798	977
	Zinc	ppm	ASTM D5185m		1050	968	1089
	Sulfur	ppm	ASTM D5185m		3510	2688	2892
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	17.9	17.5
	Base Number (BN)				8.3	9.2	9.3
							0.0







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0032255 Lab Number : 06154180

Unique Number : 10989603

Test Package : CONST (Additional Tests: TBN)

Received **Tested** Diagnosed

: 19 Apr 2024 : 22 Apr 2024 : 22 Apr 2024 - Wes Davis

MA HESTON INC 1131 PLEASANT VALLEY RD FAIRMONT, WV

US 26554 Contact: HERB STEVENS hestevens@ma.rr.com

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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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