



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



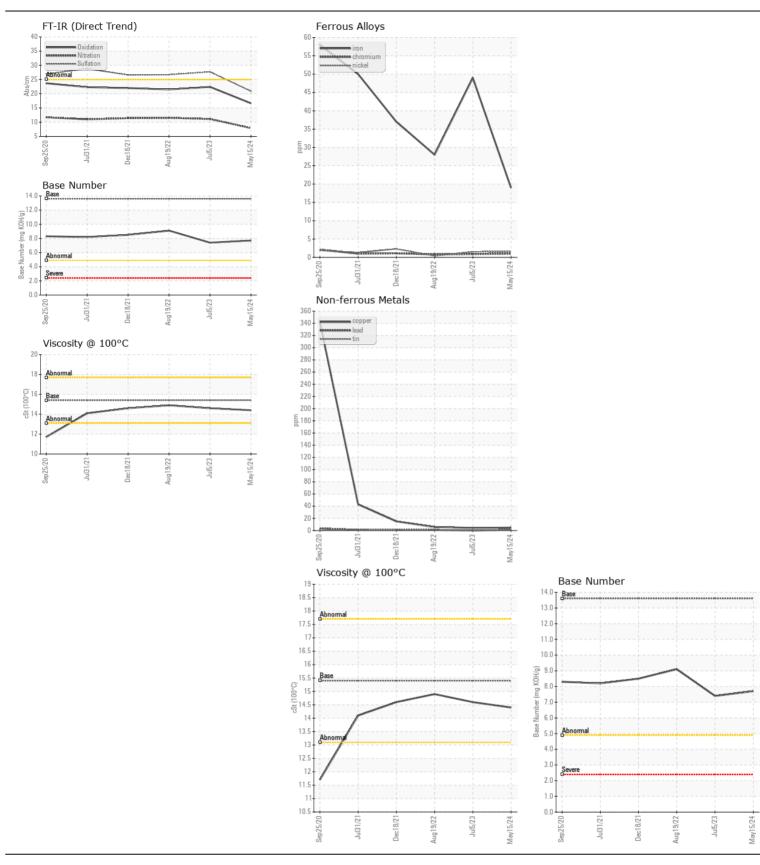
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JOHN DEERE 250G 1FF250GXCKF611322

Diesel Engine

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

JOHN DEERE ENGINE OIL PLO			· · · · · · · · · · · · · · · · · · ·				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0050167	LEC0043122	LEC0033565
	Sample Date		Client Info		15 May 2024	05 Jul 2023	19 Aug 2022
	Machine Age	hrs	Client Info		3350	2878	2257
	Oil Age	hrs	Client Info		472	621	485
	Filter Age	hrs	Client Info		472	621	485
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	19	49	28
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1	<1	<1
	Nickel	ppm	ASTM D5185m		2	2	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m		4	1	3
	Lead	ppm	ASTM D5185m		1	0	<1
	Copper	ppm	ASTM D5185m		5	4	6
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	8	7
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		9	2	3
	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		0.3	0.7	0.5
	Nitration	Abs/cm	*ASTM D7624		7.9	11.1	11.5
	Sulfation	Abs/.1mm	*ASTM D7415		20.9	27.7	26.7
	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	NORMI
	Odor Emulsified Water	scalar	*Visual	NORML	NORML	NORML	NORMI NEG
<u></u>	Elliuisilleu watei	scalar	*Visual	>0.21	NEG	NEG	INEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	5	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		196	85	116
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		36	231	185
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		126	762	618
	Calcium	ppm	ASTM D5185m		2169	1769	1686
	Phosphorus	ppm	ASTM D5185m		1053	937	867
	Zinc	ppm	ASTM D5185m		1188	1156	1101
	Sulfur	ppm	ASTM D5185m		4035	3293	2878
	Oxidation	Abs/.1mm	*ASTM D7414		16.6	22.4	21.5
	Base Number (BN)	0	ASTM D2896		7.7	7.4	9.1
	Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.6	14.9







Certificate L2367

Laboratory

Sample No.

Lab Number : 06185972 Unique Number : 11042724

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0050167

Received

: 21 May 2024 **Tested** : 22 May 2024 Diagnosed

: 23 May 2024 - Jonathan Hester Test Package : CONST (Additional Tests: TBN)

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.

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)