WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

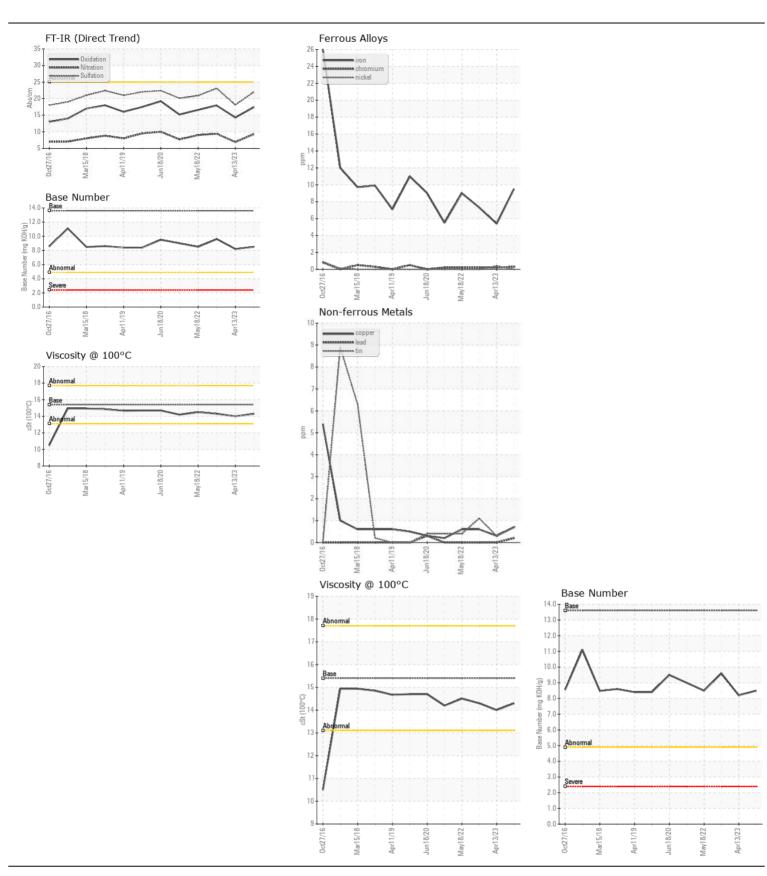
Machine Id

JOHN DEERE 1FF075GXEFJ015782

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218044	JR0166513	JR014966
	Sample Date		Client Info		23 May 2024	13 Apr 2023	21 Oct 202
	Machine Age	hrs	Client Info		5345	4807	4675
	Oil Age	hrs	Client Info		538	0	4675
	Filter Age	hrs	Client Info		0	0	4675
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>51	10	5	7
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>31	5	3	4
	Lead	ppm	ASTM D5185m	>26	<1	0	0
	Copper	ppm	ASTM D5185m	>26	<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	<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	>22	10	19	10
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	2	<1
There is no indication of any contamination in the oil.	Fuel	PPIII	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.3	6.9	9.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0	18.1	23.1
	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
ELUID CONDITION	Sodium	nnm	ASTM D5185m	. 21	2	2	_1
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m	<i>></i> 01	262	311	<1 245
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		249	237	234
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		836	807	803
	Calcium	ppm	ASTM D5185m		1529	1414	1442
	Phosphorus	ppm	ASTM D5185m		940	910	885
	Zinc	ppm	ASTM D5185m		1120	1088	1072
	Sulfur	ppm	ASTM D5185m		3622	3688	3660
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	14.3	17.9
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.2	9.6
	Visc @ 100°C	cSt	ASTM D445	15.4	14.3	14.0	14.3







Certificate L2367

Laboratory Sample No.

Lab Number : 06191483

Unique Number : 11048235

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0218044 Received : 24 May 2024 **Tested** : 29 May 2024 : 29 May 2024 - Wes Davis

Diagnosed

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.

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

NPL CONSTRUCTION

7611 COPPERMINE DR MANASSAS, VA US 20109-2668 Contact: BRANDON

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