WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

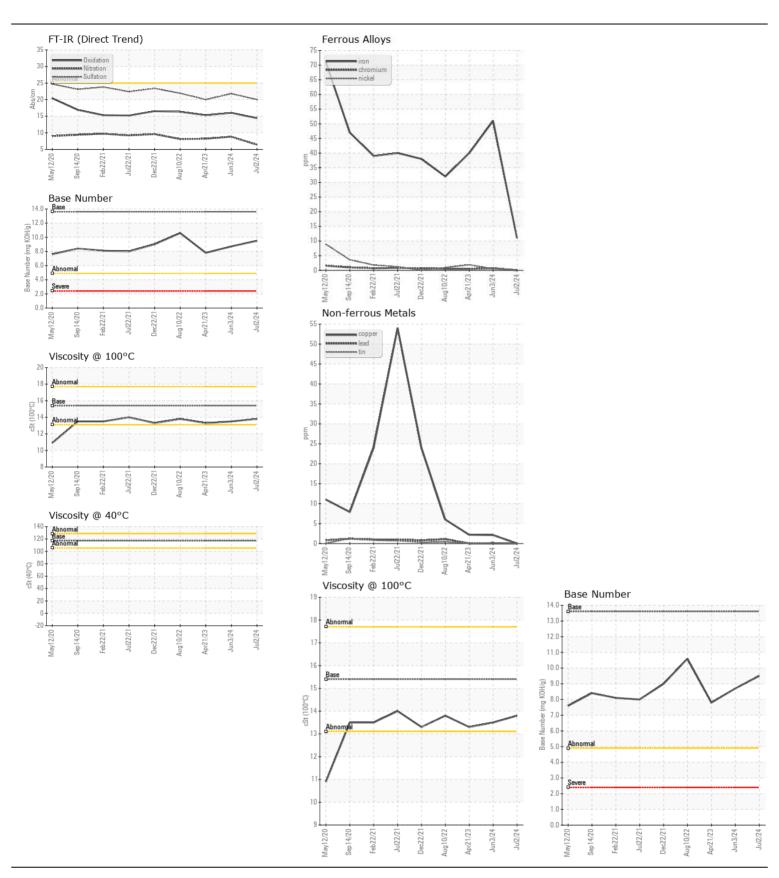
Machine Id

JOHN DEERE 350G 1FF350GXJKF813760

Diesel Engine

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

	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0224926	JR0211579	JR0168866
	Sample Date		Client Info		02 Jul 2024	03 Jun 2024	21 Apr 2023
	Machine Age	hrs	Client Info		4005	3978	3439
	Oil Age	hrs	Client Info		27	0	498
	Filter Age	hrs	Client Info		27	0	498
	Oil Changed		Client Info		Not Changd	Changed	Changed
	Filter Changed		Client Info		Not Changd	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	11	<u></u> 51	40
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	<1	2
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	4	6	4
	Lead	ppm	ASTM D5185m	>26	0	0	0
	Copper	ppm	ASTM D5185m	>26	0	2	2
	Tin	ppm	ASTM D5185m	>4	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	7	8
	Potassium	ppm	ASTM D5185m	>20	2	0	0
There is no indication of any contamination in the oil.	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	0.1	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	6.4	8.8	8.2
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.0	21.8	20.0
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	1	2
	Boron	ppm	ASTM D5185m		233	226	202
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		226	263	261
	Manganese	ppm	ASTM D5185m		<1	1	1
	Magnesium	ppm	ASTM D5185m		795	859	808
	Calcium	ppm	ASTM D5185m		1464	1457	1394
	Phosphorus	ppm	ASTM D5185m		938	900	856
	Zinc	ppm	ASTM D5185m		1102	1093	1100
	Sulfur	ppm	ASTM D5185m		3713	3413	3142
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	16.0	15.3
	Oxidation	/ 100/. !!!!!!		/20			
	Base Number (BN)		ASTM D2896		9.5	8.7	7.8







Certificate L2367

Laboratory Sample No. Unique Number : 11110671

Lab Number : 06227178

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0224926

Received **Tested** Diagnosed

: 03 Jul 2024 : 05 Jul 2024

: 05 Jul 2024 - Don Baldridge

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

Test Package: CONST (Additional Tests: TBN, KV40) To discuss this sample report, contact Customer Service at 1-800-237-1369.

dzieg@jamesriverequipment.com T: (804)798-6001

* - 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)

F: (804)798-0292