WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

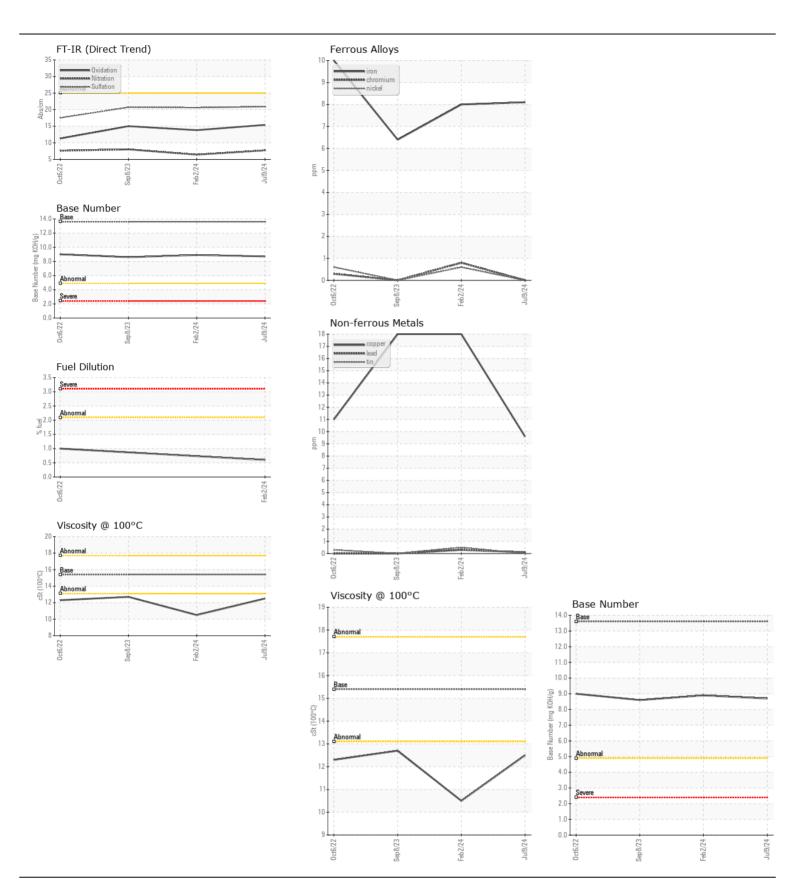
Machine Id

JOHN DEERE 135G 1FF135GXJMF503178

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (18 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0225775	JR0203281	JR0187570
	Sample Date		Client Info		09 Jul 2024	02 Feb 2024	08 Sep 2023
	Machine Age	hrs	Client Info		1987	1462	941
	Oil Age	hrs	Client Info		525	521	941
	Filter Age	hrs	Client Info		525	521	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ATTENTION	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	8	8	6
	Chromium	ppm	ASTM D5185m	>11	0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	6	9
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		10	18	18
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliana		ACTA DE10E	00		40	
CONTAMINATION	Silicon	ppm	ASTM D5185m		6	10	9
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		<1	2	0
	Fuel	%	ASTM D3524		<1.0	0.6	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG NEG
	Glycol Soot %	%	*ASTM D7844	. 0	NEG	NEG 0.1	0.1
	Nitration		*ASTM D7624		0.1 7.7	0.1 6.4	8.0
	Sulfation	Abs/.1mm	*ASTM D7624		20.9	20.6	20.7
	Silt		*Visual		NONE		NONE
	Debris	scalar scalar	*Visual	NONE	NONE	NONE NONE	
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	0	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		226	229	247
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		235	216	199
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		798	750	675
	Calcium	ppm	ASTM D5185m		1761	3543	1481
	Phosphorus	ppm	ASTM D5185m		954	1442	817
	Zinc	ppm	ASTM D5185m		1111	1829	994
	Sulfur	ppm	ASTM D5185m		3626	5081	3022
	Oxidation	Abs/.1mm	*ASTM D7414		15.4	13.8	15.0
	Base Number (BN)				8.7	8.9	8.6
	Visc @ 100°C	cSt	ASTM D445		12.5	10.5	12.7







Certificate L2367

Laboratory

Sample No.

: JR0225775 Lab Number : 06233095

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

Tested Unique Number: 11116588 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, TBN)

: 12 Jul 2024

Received

: 11 Jul 2024

: 12 Jul 2024 - Don Baldridge

Contact: DON VEST dvest@jamesriverequipment.com T: (703)631-8500

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

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.

F: (703)631-4715 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

US 20111