WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

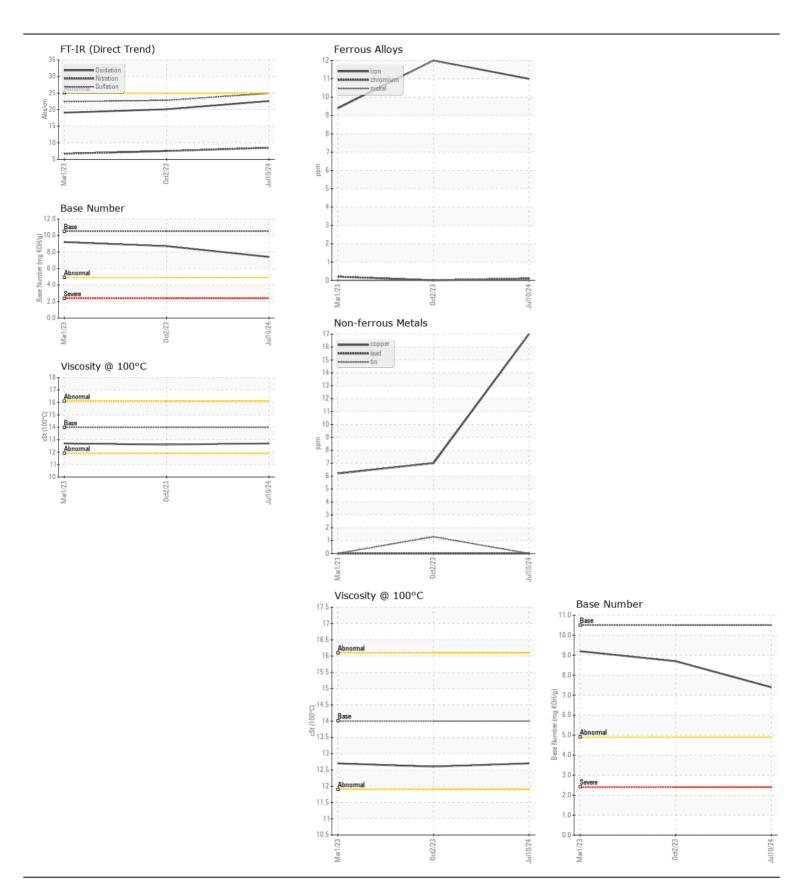
Machine Id

JOHN DEERE 324G 1T0324GMCNJ422787

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 0W40 (13 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0225573	JR0190205	JR0158882
	Sample Date		Client Info		10 Jul 2024	02 Oct 2023	01 Mar 2023
	Machine Age	hrs	Client Info		461	174	116
	Oil Age	hrs	Client Info		287	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	11	12	9
	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	\3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m		4	4	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		17	7	6
	Tin	ppm	ASTM D5185m		0	1	0
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Oiline		AOTA DE405	00	47	47	40
CONTAMINATION	Silicon	ppm	ASTM D5185m		17	47	40
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	3	1 0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% Ala a /ava	*ASTM D7844		0.2	0.2	0.2
	Nitration	Abs/dmm	*ASTM D7624		8.5	7.5	6.7
	Sulfation	Abs/.1mm	*ASTM D7415		24.9	22.8	22.4
	Silt Debris	scalar	*Visual	NONE	NONE	NONE	NONE
		scalar	*Visual *Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar		NONE	NONE	NONE	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORMI
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	10	8
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		246	273	257
	Barium	ppm	ASTM D5185m		0	<1	3
	Molybdenum	ppm	ASTM D5185m		251	253	242
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		847	717	735
	Calcium	ppm	ASTM D5185m		1513	1643	1713
	Phosphorus	ppm	ASTM D5185m		904	846	849
	Zinc	ppm	ASTM D5185m		1085	1031	1055
	Sulfur	ppm	ASTM D5185m	0.5	3461	3240	3923
	Oxidation	Abs/.1mm	*ASTM D7414		22.6 7.4	20.1 8.7	19.1 9.2
	Base Number (BN)						







Certificate L2367

Report Id: JAMMAN [WUSCAR] 06233078 (Generated: 07/12/2024 15:15:14) Rev: 1

Laboratory Sample No. Unique Number : 11116571

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06233078

: JR0225573

Received **Tested**

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 12 Jul 2024 : 12 Jul 2024 - Don Baldridge

: 11 Jul 2024

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: DON VEST dvest@jamesriverequipment.com

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.

T: (703)631-8500 F: (703)631-4715

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