WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

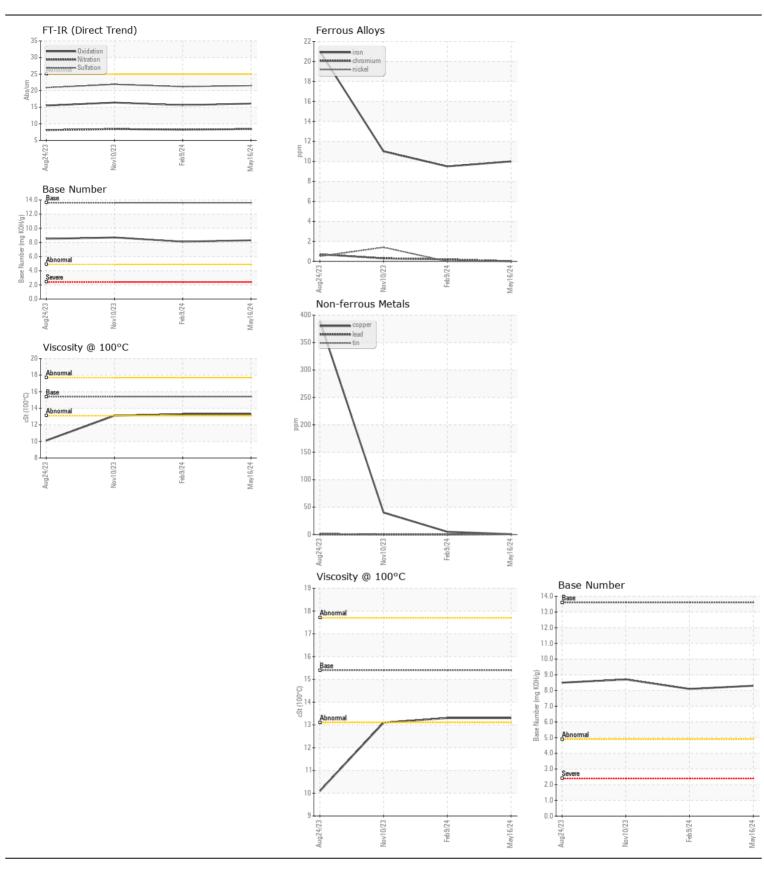
Machine Id

JOHN DEERE 624 P 1DW624PAVPLX19408

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0207790	JR0201332	JR019122
Resample at the next service interval to monitor.	Sample Date		Client Info		16 May 2024	09 Feb 2024	10 Nov 2020
	Machine Age	hrs	Client Info		2299	1685	1134
	Oil Age	hrs	Client Info		614	551	616
	Filter Age	hrs	Client Info		614	551	616
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	>51	10	10	11
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	3	5
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	5	4 0
	Tin	ppm	ASTM D5185m		<1	0	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	Silicon		ASTM D5185m	. 00		0	
CONTAMINATION		ppm			7 <1	8	6
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m			0 <1.0	<1.0
			WC Method		<1.0		
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol Soot %	%	*ASTM D7844	. 0	NEG 0.2	NEG	NEG 0.2
	Nitration		*ASTM D7624		8.4	0.2 8.2	8.4
	Sulfation	Abs/.1mm	*ASTM D7624		21.5	21.2	21.9
	Silt		*Visual	NONE	NONE	NONE	NONE
	Debris	scalar scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt		*Visual	NONE	NONE	NONE	NONE
		scalar	*Visual	NORML	NORML	NORML	NORM
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	2	4
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		281	245	219
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		263	239	232
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		849	807	800
	Calcium	ppm	ASTM D5185m		1425	1422	1299
	Phosphorus	ppm	ASTM D5185m		950	893	861
	Zinc	ppm	ASTM D5185m		1095	1061	1028
	Sulfur	ppm	ASTM D5185m		3457	2869	2792
	Oxidation	Abs/.1mm	*ASTM D7414		16.1	15.6	16.4
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.3	8.1	8.7
	Visc @ 100°C	cSt	ASTM D445	4 = 4	13.3	13.3	13.1







Laboratory Sample No.

Lab Number : 06187049

: JR0207790

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

Tested Unique Number : 11043801 Diagnosed

Received : 21 May 2024 : 23 May 2024

: 23 May 2024 - Wes Davis

JRE - ASHEVILLE 101 BRUCE DRIVE ASHEVILLE, NC US 28806 Contact: Randy Warren

Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

randy.warren@jamesriverequipment.com T: (528)667-0176

* - 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: (828)667-4865