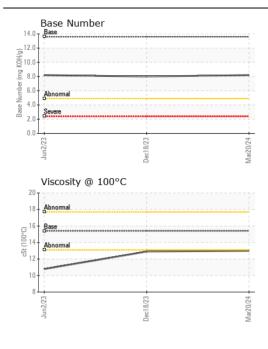
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

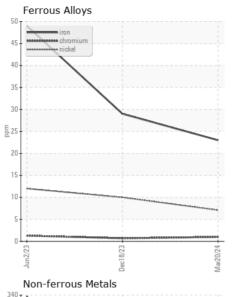
JOHN DEERE 624 P 1DW624PALNLT13712

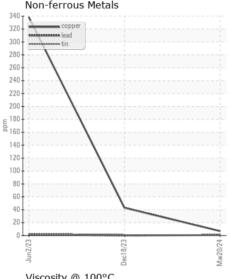
Component Diesel Engine

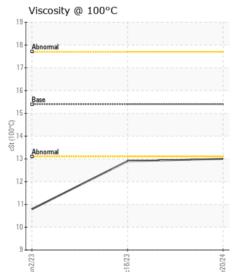
IOHN DEERE ENGINE OIL PLUS 50 IL 15W40 (21 QTS)

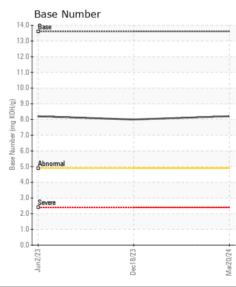
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (2	21 QTS)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0203041	JR0199155	JR0171906
Resample at the next service interval to monitor.	Sample Date		Client Info		20 Mar 2024	18 Dec 2023	02 Jun 2023
	Machine Age	hrs	Client Info		1482	955	542
	Oil Age	hrs	Client Info		527	955	542
	Filter Age	hrs	Client Info		527	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	23	29	49
	Chromium	ppm	ASTM D5185m	>11	1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	7	10	12
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	4	4
	Lead	ppm	ASTM D5185m		<1	0	1
	Copper	ppm	ASTM D5185m		7	43	338
	Tin	ppm	ASTM D5185m		<1	1	3
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 22	8	8	12
CONTAININATION	Potassium	ppm	ASTM D5185m		3	2	8
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	0.2
	Water		WC Method		<1.0 NEG	NEG	NEG
	Glycol		WC Method	>0.21	NEG	NEG	0.0
	Soot %	%	*ASTM D7844	. 2	0.3	0.3	0.6
	Nitration	Abs/cm	*ASTM D7624		8.9	8.0	10.2
	Sulfation	Abs/.1mm	*ASTM D7024		21.8	21.7	25.9
	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		*Visual	>0.21	NEG	NEG	0.2%
EL LUD CONDITION	Co divers		ACTM DE10E	04		4	0
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	216	3
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m ASTM D5185m		212 <1	216 <1	136
	Molybdenum	ppm			219	242	287
		ppm	ASTM D5185m				
	Manganese Magnesium	ppm	ASTM D5185m ASTM D5185m		<1 828	1 816	6 799
	Calcium	ppm	ASTM D5165III		1579	1466	1556
	Phosphorus	ppm	ASTM D5165III		1075	959	919
	Zinc	ppm	ASTM D5165III		1184	1114	1107
	Sulfur	ppm	ASTM D5185m		3586	3125	3016
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	17.3	15.7	19.1
	Base Number (BN)		ASTM D2896		8.2	8.0	8.2
	Visc @ 100°C		ASTM D2696 ASTM D445		13.0	12.9	10.79
	VISC @ 100 C	USI	73 INI D443	15.4	13.0	12.3	10.79













Laboratory Sample No.

Lab Number : 06125437 Unique Number: 10939588

: JR0203041

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

Received : 21 Mar 2024 **Tested** Diagnosed Test Package : CONST (Additional Tests: TBN)

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

: 22 Mar 2024

: 25 Mar 2024 - Don Baldridge

9107 OWENS DRIVE MANASSAS PARK, VA US 20111 Contact: DON VEST

JRE - MANASSAS PARK

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

Report Id: JAMMAN [WUSCAR] 06125437 (Generated: 03/25/2024 15:01:34) Rev: 1