WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id

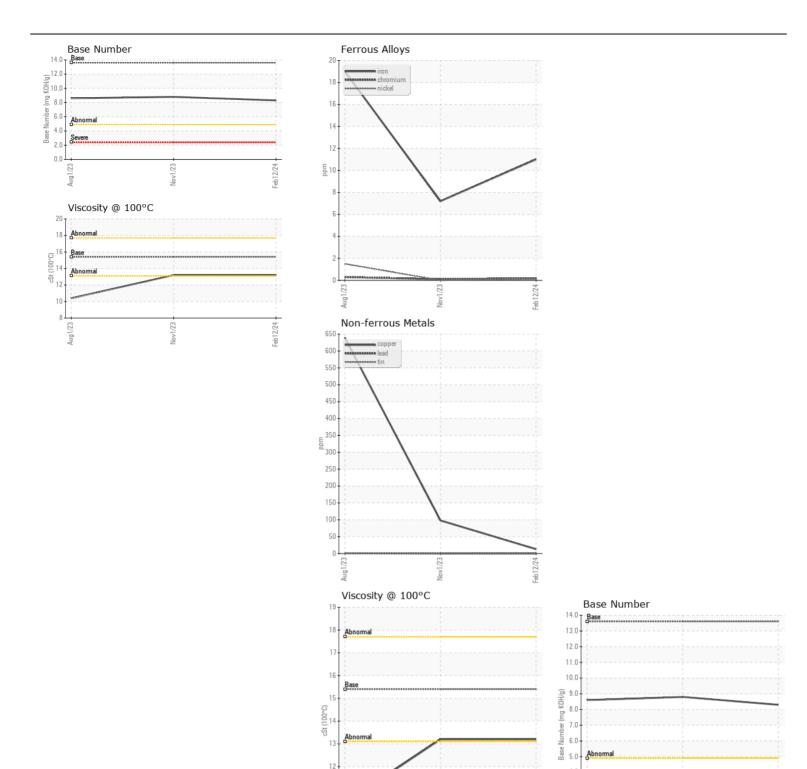
JOHN DEERE 624 P 1DW624PATPLZ16961

Component Diesel Engine

-IOHN DEERE ENGINE OIL DLUS 50 IL 15W40 (--- (

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0199827	JR0180232	JR016428
	Sample Date		Client Info		12 Feb 2024	01 Nov 2023	01 Aug 202
	Machine Age	hrs	Client Info		1503	950	456
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed Sample Status		Client Info		Changed NORMAL	Changed ABNORMAL	Changed ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>51	11	7	19
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	2
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	2	3	3
	Lead	ppm	ASTM D5185m	>26	0	0	<1
	Copper	ppm	ASTM D5185m	>26	13	<u></u> 98	639
	Tin	ppm	ASTM D5185m	>4	0	<1	1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	7	11
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	0	4
	Fuel		WC Method	>2.1	<1.0	<1.0	0.5
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	8.1	7.9
	Sulfation	Abs/.1mm	*ASTM D7415		21.7	21.4	20.5
	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 *Visual	NORML	NORML	NORML	NORM
	Odor	scalar		NORML	NORML	NORML	NORM
<u></u>	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	0	0
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		269	247	277
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		13	0	1
	Molybdenum	ppm	ASTM D5185m		247	254	262
	Manganese	ppm	ASTM D5185m		<1	<1	4
	Magnesium	ppm	ASTM D5185m		776	854	782
	Calcium	ppm	ASTM D5185m		1355	1461	1415
	Phosphorus	ppm	ASTM D5185m		972	939	913
	Zinc	ppm	ASTM D5185m		1043	1144	1063
	Sulfur	ppm	ASTM D5185m	05	3676	3115	3025
	Oxidation	Abs/.1mm	*ASTM D7414 ASTM D2896		15.9 8.3	16.1 8.8	15.6 8.6
	Base Number (BN)						

Contact/Location: DAVID ZIEG - JAMASH







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0199827 Lab Number : 06088627 Unique Number : 10876072

Test Package : CONST (Additional Tests: TBN)

Received **Tested** Diagnosed

: 14 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Wes Davis

Feb12/24

2.0

0.0

Aug1/23

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005

Contact: DAVID ZIEG dzieg@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: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292

Contact/Location: DAVID ZIEG - JAMASH