Machine Id

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

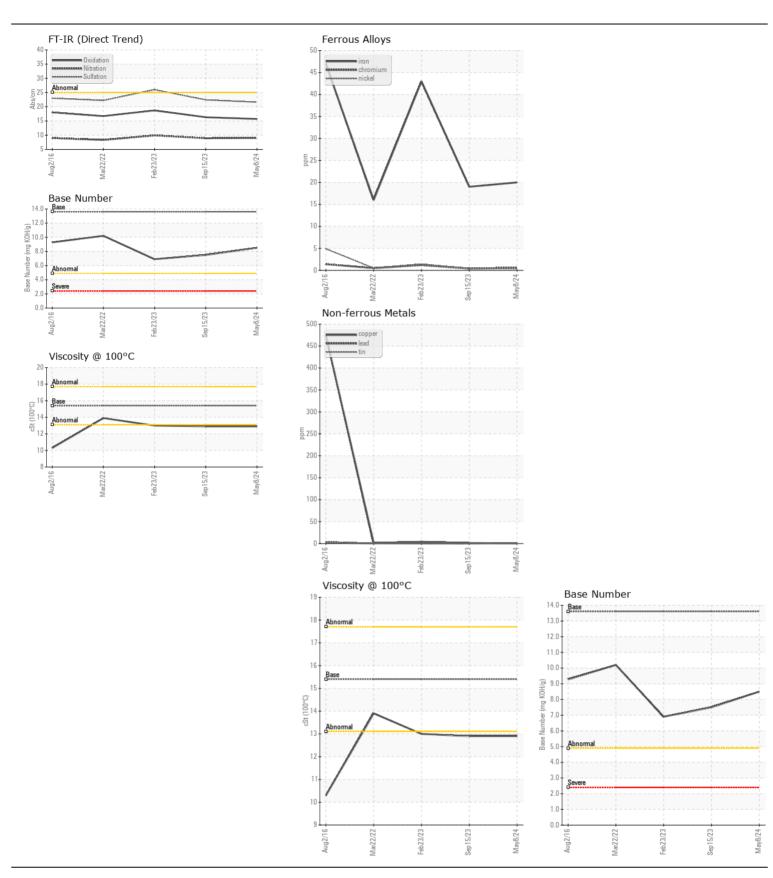


JOHN DEERE 624K 1DW624KZJFF670993

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (20 QTS)

JOHN DEEKE ENGINE OIL PLU	13 30 II 13 W	40 (20	J (13)		-,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0206890	JR0185379	JR0160966
	Sample Date		Client Info		08 May 2024	15 Sep 2023	23 Feb 2023
	Machine Age	hrs	Client Info		4393	4086	3640
	Oil Age	hrs	Client Info		0	446	635
	Filter Age	hrs	Client Info		0	446	635
	Oil Changed		Client Info		N/A	Changed	Changed
	Filter Changed		Client Info		N/A	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	<u>- 51</u>	20	19	43
WLAN	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	1
	Titanium	ppm	ASTM D5185m	/5	0	<1	<1
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	2	7
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper	ppm	ASTM D5185m		<1	1	4
	Tin	ppm	ASTM D5185m		0	- <1	1
	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	ppm	ASTM D5185m	>22	6	6	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	5	12
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.3	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.0	8.9	9.9
	Sulfation	Abs/.1mm	*ASTM D7415		21.6	22.4	26.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	NORML NORML
	Emulsified Water	scalar scalar	*Visual	>0.21	NEG	NEG	NEG
		Scalai	Visuai	20.21		INLO	INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	7	12
The DNI would be discussed the state of the	Boron	ppm	ASTM D5185m		229	205	89
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		242	247	246
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		784	837	809
	Calcium	ppm	ASTM D5185m		1438	1523	1528
	Phosphorus	ppm	ASTM D5185m		916	873	831
	Zinc	ppm	ASTM D5185m		1074	1084	1044
	Sulfur	ppm	ASTM D5185m		3423	3503	3666
	Oxidation	Abs/.1mm	*ASTM D7414		15.7	16.3	18.7
	Base Number (BN)				8.5	7.5	6.9
	Visc @ 100°C	cSt	ASTM D445	15.4	12.9	12.9	13.0







Laboratory Sample No. Unique Number : 11023050

Lab Number : 06176997

: JR0206890

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

: 14 May 2024 Diagnosed : 14 May 2024 - Wes Davis Test Package : CONST (Additional Tests: TBN)

: 13 May 2024

113 CROWATAN ROAD CASTLE HAYNE, NC

US 28429-5819 Contact: WILMINGTON SHOP

JRE - CASTLE HAYNE

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. todd.simmons@jamesriverequipment.com; canastasio@wearcheck.com; canastasiow; canaT: (910)675-9211

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

F: