WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

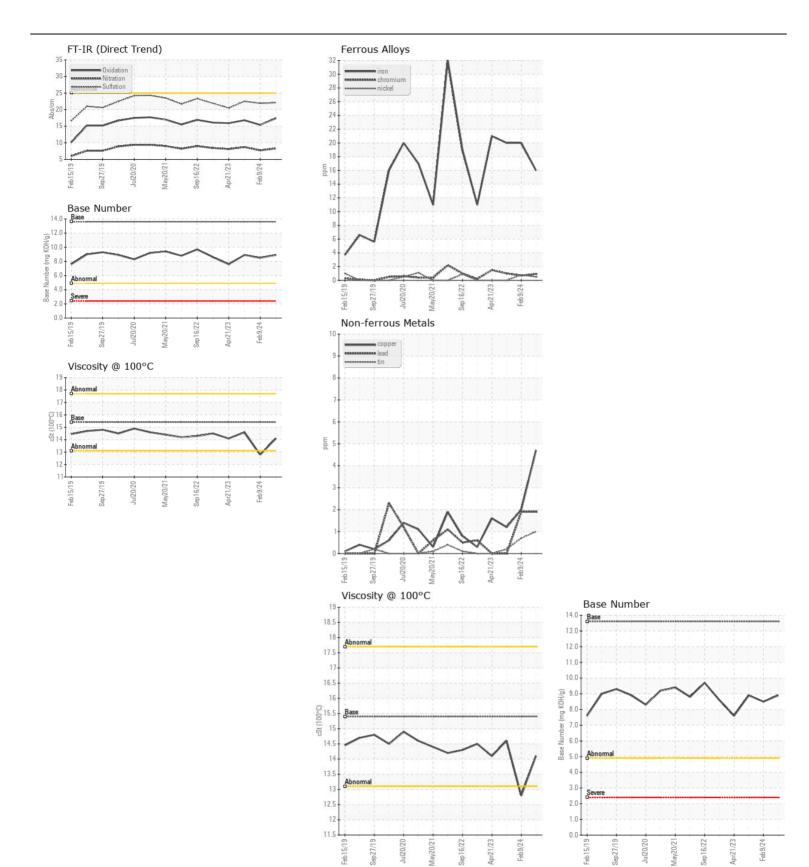


JOHN DEERE 744K DW744KX625256

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (36 QTS)

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (36 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number		Client Info		JR0217649	JR0199516	JR0184180
Resample at the next service interval to monitor.	Sample Date		Client Info		17 May 2024	09 Feb 2024	23 Aug 2023
	Machine Age	hrs	Client Info		19079	18641	18081
	Oil Age	hrs	Client Info		438	560	508
	Filter Age	hrs	Client Info		438	560	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	16	20	20
WEAR	Chromium	ppm	ASTM D5185m		<1	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		5	3	5
	Lead	ppm	ASTM D5185m		2	2	0
	Copper	ppm	ASTM D5185m		5	2	1
	Tin	ppm	ASTM D5185m		1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11	9	9
	Potassium	ppm	ASTM D5185m	>20	4	4	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.7	8.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.9	22.5
	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	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	13	16	10
	Boron	ppm	ASTM D5185m		264	154	234
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		0	14	0
	Molybdenum	ppm	ASTM D5185m		276	181	269
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		889	609	913
	Calcium	ppm	ASTM D5185m		1604	1868	1561
	Phosphorus	ppm	ASTM D5185m		925	976	948
	Zinc	ppm	ASTM D5185m		1173	1095	1183
	Sulfur	ppm	ASTM D5185m		3387	3537	3713
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	15.4	16.8
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.9	8.5	8.9
	Visc @ 100°C	cSt	ASTM D445	15.4	14.1	12.8	14.6







Certificate L2367

Report Id: JAMMAN [WUSCAR] 06189954 (Generated: 05/25/2024 00:31:04) Rev: 1

Laboratory Sample No. Unique Number : 11046706

Lab Number : 06189954

: JR0217649

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

: 23 May 2024 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 25 May 2024 : 25 May 2024 - Wes Davis 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)