WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

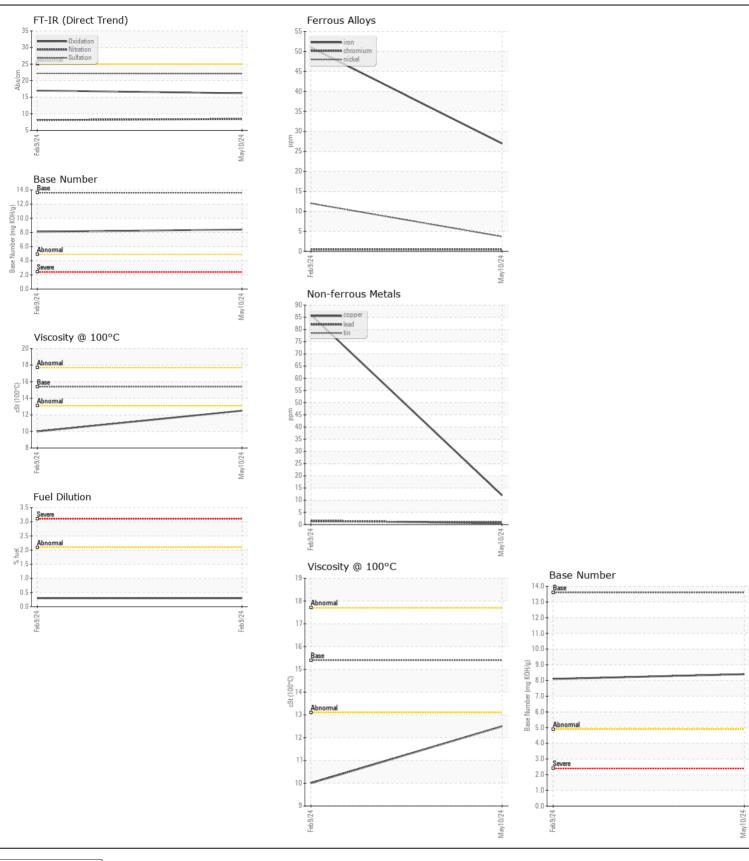
Machine Id

JOHN DEERE 948L 1DW948LBPPF716904

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212343	JR0200194	
	Sample Date		Client Info		10 May 2024	09 Feb 2024	
	Machine Age	hrs	Client Info		984	496	
	Oil Age	hrs	Client Info		0	496	
	Filter Age	hrs	Client Info		0	496	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>51	27	51	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	4	12	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	5	3	
	Lead	ppm	ASTM D5185m	>26	<1	2	
	Copper	ppm	ASTM D5185m	>26	12	<u></u> ▲ 86	
	Tin	ppm	ASTM D5185m	>4	1	1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	11	
CONTAININATION	Potassium	ppm	ASTM D5185m		4	11	
There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		<1.0	0.3	
	Water	70	WC Method		NEG	NEG	
	Glycol		WC Method	7 O.L I	NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	22.2	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
LUID CONDITION	Codium		ACTM DE10Em	. 01	•	A	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	212	
The BN result indicates that there is suitable alkalinity remaining in the	Boron Barium	ppm	ASTM D5185m ASTM D5185m		221 1	212 0	
oil. The condition of the oil is suitable for further service.	Molybdenum	ppm	ASTM D5165III		257	276	
	Manganese	ppm	ASTM D5185m		<1	2	
	Magnesium	ppm	ASTM D5185m		797	805	
	Calcium	ppm	ASTM D5185m		1395	1356	
	Phosphorus	ppm	ASTM D5185m		910	871	
	Zinc	ppm	ASTM D5185m		1095	1070	
	Sulfur	ppm	ASTM D5185m		3164	2902	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	17.0	
	Base Number (BN)				8.4	8.1	
	Visc @ 100°C	cSt	ASTM D445		12.5	10.0	







Certificate L2367

Laboratory Sample No. Unique Number : 11029836

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06178510

: JR0212343

Received **Tested**

Diagnosed

: 14 May 2024 : 15 May 2024

: 16 May 2024 - Sean Felton Test Package : CONST (Additional Tests: FuelDilution, TBN)

JRE - ASHLAND 11047 LEADBETTER RD ASHLAND, VA US 23005 Contact: DAVID ZIEG

dzieg@jamesriverequipment.com T: (804)798-6001

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.

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

F: (804)798-0292