WEAR CONTAMINATION FLUID CONDITION

ABNORMAL NORMAL NORMAL

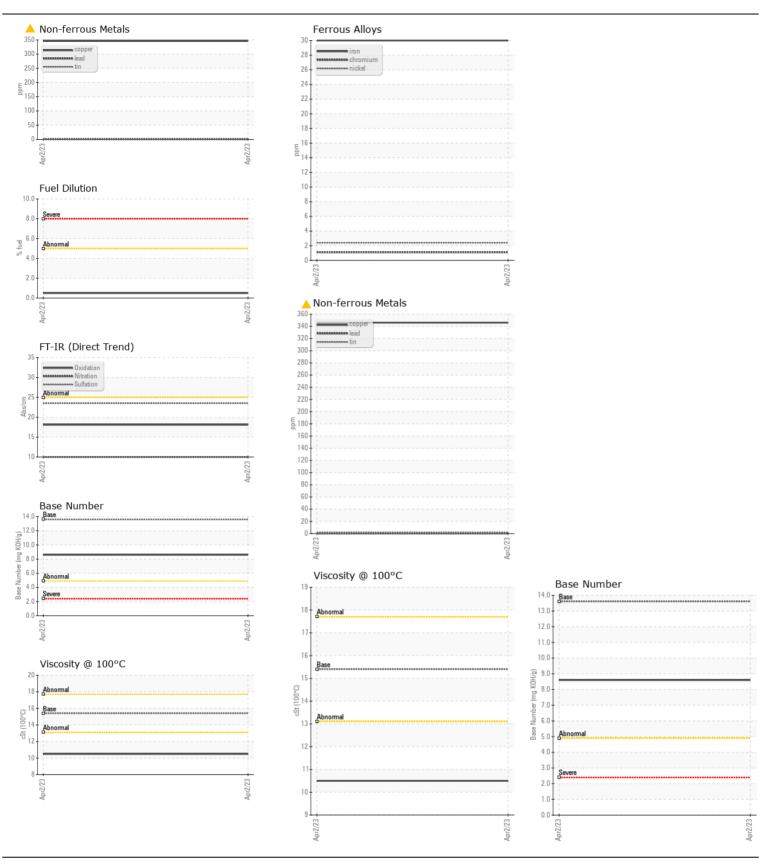
Machine Id

JOHN DEERE 748L 1DW748LBKNF716214

Diesel Engine

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

	Toot	11014	Mothad	Limit/Aba	Current	Liotomia	Lictor O
RECOMMENDATION	Test	UOM	Method Client Info	Limit/Abn	Current JR0166737	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number						
	Sample Date	le ore	Client Info		02 Apr 2023		
	Machine Age	hrs	Client Info		609		
	Oil Age	hrs	Client Info		609		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
MEAD	Iron	nnm	ASTM D5185m	. 51	20		
WEAR The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.		ppm			30		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m	>5	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>31	4		
	Lead	ppm	ASTM D5185m	>26	<1		
	Copper	ppm	ASTM D5185m	>26	△ 346		
	Tin	ppm	ASTM D5185m	>4	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		12		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	6		
	Fuel	%	ASTM D3524	>5	0.5		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	10.0		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5		
EGID GONDITION	Boron	ppm	ASTM D5185m	- 0 1	165		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		0		
			ASTM D5185m		251		
	Molybdenum	ppm					
	Manganese	ppm	ASTM D5185m		8		
	Magnesium	ppm	ASTM D5185m		839		
	Calcium	ppm	ASTM D5185m		1614		
	Phosphorus	ppm	ASTM D5185m		860		
	Zinc	ppm	ASTM D5185m		1059		
	Sulfur	ppm	ASTM D5185m		3326		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.6		
	Visc @ 100°C	cSt	ASTM D445		10.5		





Laboratory Sample No.

Lab Number : 05810263 Unique Number: 10413055

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0166737

Received **Tested**

Diagnosed

: 06 Apr 2023 : 06 Apr 2023 - Don Baldridge

: 04 Apr 2023

JRE - GREENVILLE 3604 HIGHWAY 264 E GREENVILLE, NC US 27834-5800

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: JERRY CAMPBELL jerry.campbell@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: (919)772-2121

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

F: x: