WEAR CONTAMINATION FLUID CONDITION

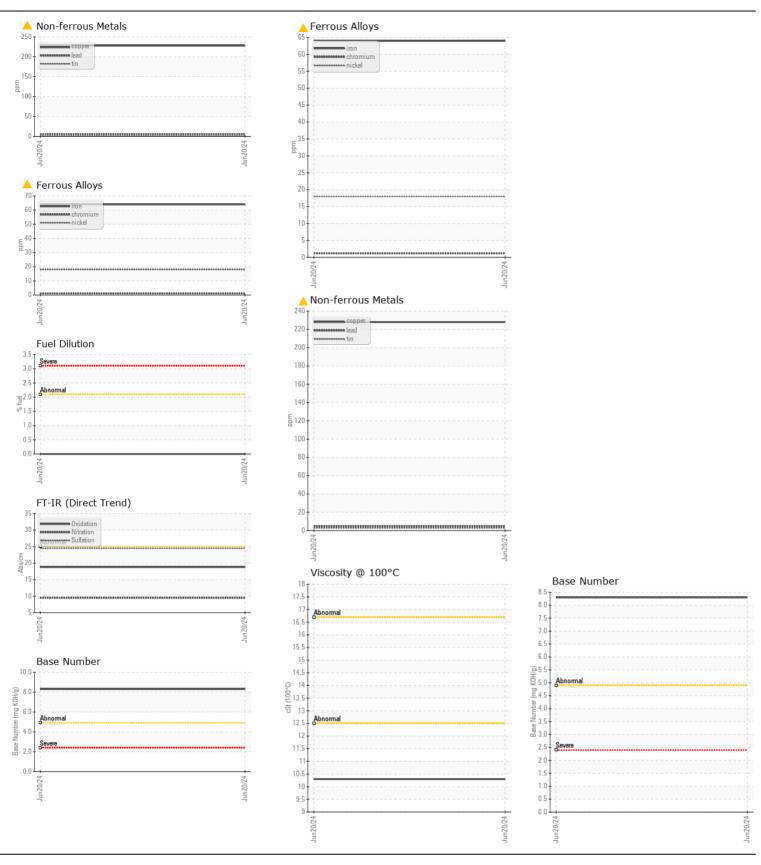
ABNORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 948LII 718635

Diesel Engine

RECOMMENDATION	- .	11011		11 19741	(<u> </u>	100	10.
	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		JR0177205		
	Sample Date	bro	Client Info		20 Jun 2024		
	Machine Age	hrs	Client Info		684		
	Oil Age Filter Age	hrs	Client Info		684 684		
		hrs	Client Info				
	Oil Changed				Changed		
	Filter Changed Sample Status		Client Info		Changed ABNORMAL		
	Sample Status				ADNUNINAL		
VEAR	Iron	ppm	ASTM D5185m	>51	64		
	Chromium	ppm	ASTM D5185m		1		
The copper level is abnormal. The nickel 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.	Nickel	ppm	ASTM D5185m		<u> 18</u>		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m		5		
	Copper	ppm	ASTM D5185m		228		
	Tin	ppm	ASTM D5185m	>4	3		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		11		
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	12		
	Fuel	%	ASTM D3524	>2.1	0.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.8		
	Nitration	Abs/cm	*ASTM D7624	>20	9.5		
	Sulfation	Abs/.1mm	*ASTM D7415		24.5		
	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		
LUID CONDITION	Sodium	ppm	ASTM D5185m	\31	7		
LOID CONDITION	Boron	ppm	ASTM D5185m	701	, 75		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		3		
	Molybdenum	ppm	ASTM D5185m		263		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		934		
	Calcium	ppm	ASTM D5185m		1705		
	Phosphorus	ppm	ASTM D5185m		1016		
	Zinc	ppm	ASTM D5185m		1315		
	Sulfur	ppm	ASTM D5185m		3484		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.8		
	Base Number (BN)			/20	8.3		
	Dasc Hamber (DIV)	my Normy	7.0 TWI D2000		0.0		





Laboratory Sample No. Unique Number : 11101511

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06223314

: JR0177205

Received **Tested**

: 28 Jun 2024 : 03 Jul 2024 Diagnosed

: 03 Jul 2024 - Jonathan Hester

JRE - MOUNT GILEAD 305 NORTH MAIN STREET MOUNT GILEAD, NC US 27306

Contact: TIM ELSWORTH

Test Package : CONST (Additional Tests: FuelDilution, KV40, PercentFuel, TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

telsworth@jamesriverequipment.com T: (910)439-5653

Contact/Location: TIM ELSWORTH - JAMMOUJR

* - 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: (910)439-4568