WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

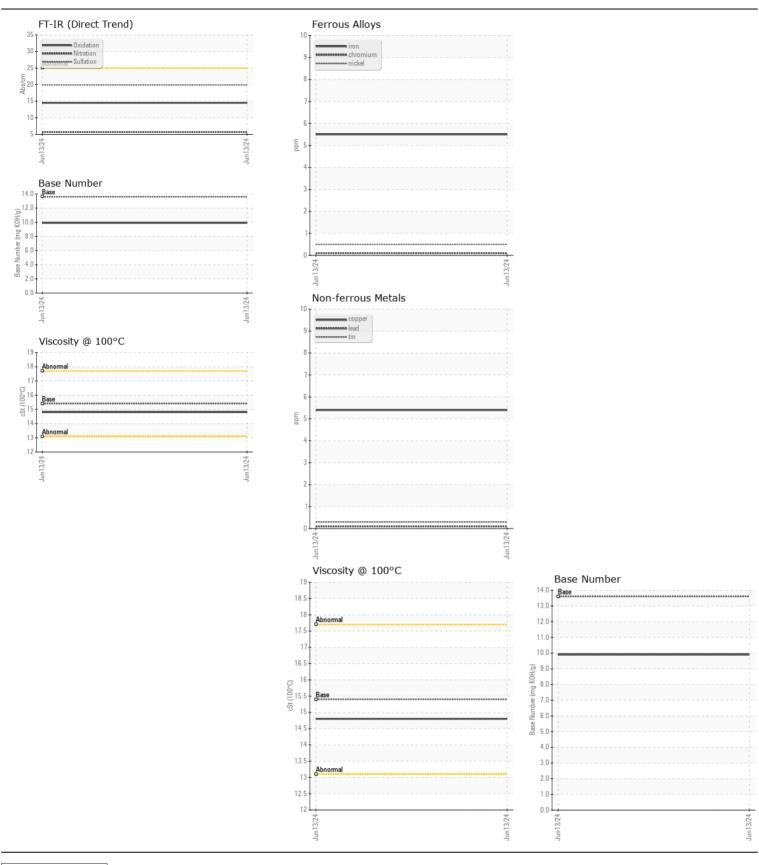
Machine Id

688679

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (38 QTS)

RECOMMENDATION	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.	Sample Number		Client Info		JR0221992		
	Sample Date		Client Info		13 Jun 2024		
	Machine Age	hrs	Client Info		7479		
	Oil Age	hrs	Client Info		500		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	nnm	ASTM D5185m	<100	6		
WLAN	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	7	<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		10		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.1		
	Nitration	Abs/cm	*ASTM D7624		5.7		
	Sulfation	Abs/.1mm	*ASTM D7415		19.9		
	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	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1		
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.	Boron		ASTM D5185m		286		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		222		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		723		
	Calcium	ppm	ASTM D5185m		1393		
	Phosphorus	ppm	ASTM D5185m		810		
	Zinc	ppm	ASTM D5185m		1038		
	Sulfur	ppm	ASTM D5185m		3278		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.9		





Laboratory Sample No. Unique Number : 11082742

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06209878

: JR0221992

Received **Tested**

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

: 14 Jun 2024 Diagnosed

: 17 Jun 2024 : 17 Jun 2024 - Angela Borella

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

F: (919)779-5432

Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)614-2260