

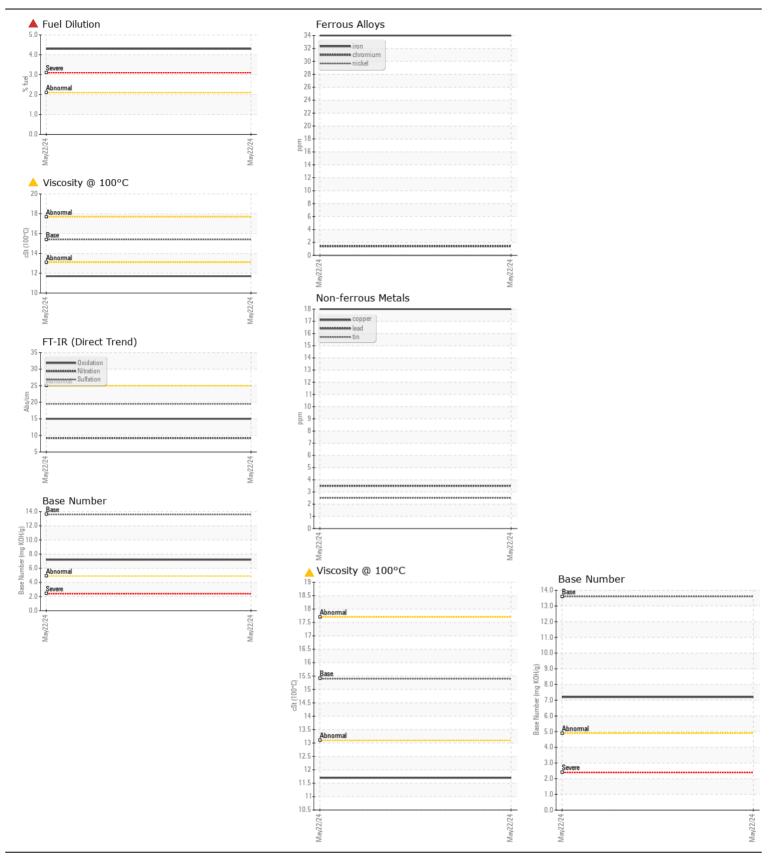
Machine Id JOHN DEERE 470G 1FF470GXAHF235137 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212643		
	Sample Date		Client Info		22 May 2024		
	Machine Age	hrs	Client Info		6668		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				SEVERE		
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	34		
	Chromium	ppm	ASTM D5185m	>11	1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		2		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>31	3		
	Lead	ppm	ASTM D5185m	>26	4		
	Copper	ppm	ASTM D5185m	>26	18		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION					_		
	Silicon	ppm	ASTM D5185m		7		
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		3		
	Fuel	%	ASTM D3524		▲ 4.3		
	Water		WC Method	>0.21	NEG		
	Glycol	0/	WC Method	0	NEG		
	Soot %	%	*ASTM D7844 *ASTM D7624		0.4 9.2		
	Nitration Sulfation	Abs/cm	*ASTM D7624	>20 >30	9.2 19.5		
	Silt	Abs/.1mm			NONE		
	Debris	scalar	*Visual	NONE			
		scalar	*Visual *Visual	NONE	NONE NONE		
	Sand/Dirt Appearance	scalar	*Visual	NONE NORML	NORML		
	Odor	scalar scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.21	NEG		
		Scalai	visuai	>0.21			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6		
	Boron	ppm	ASTM D5185m		27		
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		83		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		339		
	Calcium	ppm	ASTM D5185m		1891		
	Phosphorus	ppm	ASTM D5185m		1024		
	Zinc	ppm	ASTM D5185m		1195		
	Sulfur	ppm	ASTM D5185m		3786		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0		
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.2		
	Vier @ 10000	- 01		4 5 4	• • • • •		

Visc @ 100°C cSt

ASTM D445 15.4

11.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - GARNER** Sample No. : JR0212643 Received 4161 AUBURN CHURCH RD : 24 May 2024 : 29 May 2024 Lab Number : 06191477 Tested GARNER, NC Unique Number : 11048229 : 29 May 2024 - Angela Borella Diagnosed US 27529 Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: RALEIGH SHOP 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 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)779-5432

Submitted By: JOHN GUASCHINO Page 2 of 2