WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

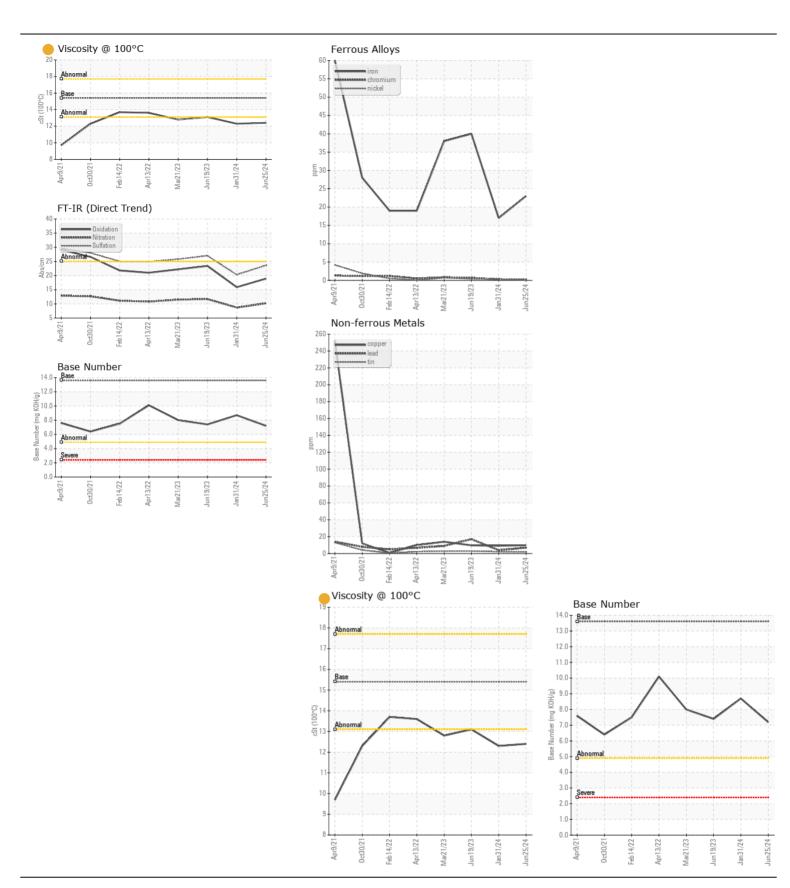
Machine Id

JOHN DEERE 470G 1FF470GXELF236558

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (12 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0221010	JR0202602	JR017409
	Sample Date		Client Info		25 Jun 2024	31 Jan 2024	19 Jun 202
	Machine Age	hrs	Client Info		5971	5297	4163
	Oil Age	hrs	Client Info		674	0	0
	Filter Age	hrs	Client Info		674	0	0
	Oil Changed		Client Info		Changed	Changed	N/A
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ATTENTION	ATTENTION	SEVERE
VEAR	Iron	ppm	ASTM D5185m	>51	23	17	40
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	3
	Lead	ppm	ASTM D5185m		7	4	17
	Copper	ppm	ASTM D5185m		10	9	10
	Tin	ppm	ASTM D5185m		2	2	3
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONI
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONI
······			v 100a				
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	7	7	8
	Potassium	ppm	ASTM D5185m	>20	5	2	4
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	1.8	▲ 3.5
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.4	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.7	11.7
	Sulfation	Abs/.1mm	*ASTM D7415		23.6	20.3	27.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONI
	Debris	scalar	*Visual	NONE	NONE	NONE	NON
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONI
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
LUID CONDITION	Sodium	nnm	ASTM D5185m	ູຊ1	8	4	7
LUID CONDITION	Sodium	ppm	ASTM D5185m	<i>></i> 01	50	34	
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron Barium	ppm	ASTM D5185m		0	<1 <1	25 2
	Molybdenum	ppm			181	89	
	•	ppm	ASTM D5185m				190
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		721	800	881
	Calcium	ppm	ASTM D5185m		1409	1159	1333
	Phosphorus	ppm	ASTM D5185m		858	968	964
	Zinc	ppm	ASTM D5185m		1166	1170	1185
	Sulfur	ppm	ASTM D5185m	0.5	2761	2853	3076
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		18.9	15.9	23.4
		mg KOH/g	ASTM D2896	126	7.2	8.7	7.4







Certificate L2367

Laboratory Sample No. Unique Number : 11099005

: JR0221010 Lab Number : 06220808

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

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

: 26 Jun 2024 : 26 Jun 2024

: 27 Jun 2024 - Sean Felton

JRE - NEW BERN 3816 MARTIN LUTHER KING BLVD

NEW BERN, NC US 28562

Contact: NEW BERN SHOP nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.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.

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

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