WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

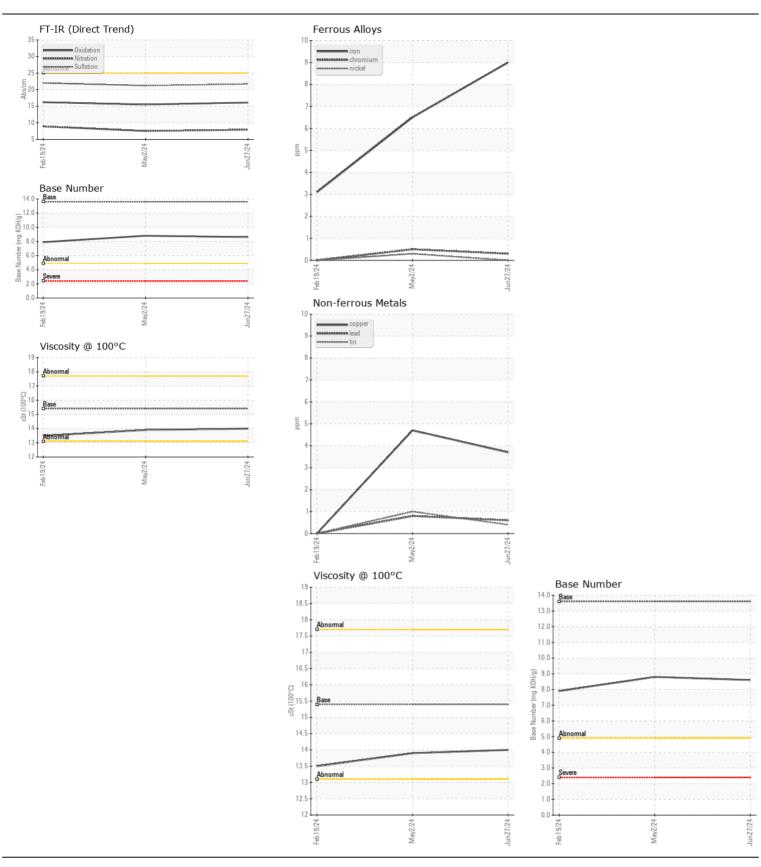
[05W47444]

JOHN DEERE 245G 1FF245GXHMF802209

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (24 QTS)

	24 QTS)				-,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0218639	JR0214324	JR0203248
	Sample Date		Client Info		27 Jun 2024	02 May 2024	19 Feb 2024
	Machine Age	hrs	Client Info		3804	3473	3096
	Oil Age	hrs	Client Info		331	377	242
	Filter Age	hrs	Client Info		331	377	242
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	9	6	3
	Chromium	ppm	ASTM D5185m		<1	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	6	3
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		4	5	0
	Tin	ppm	ASTM D5185m		<1	1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		9	10	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	8	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624		7.9	7.5	8.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.7	21.2	22.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	<1	<1
	Boron	ppm	ASTM D5185m		198	299	218
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		251	240	216
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		848	792	837
	Calcium	ppm	ASTM D5185m		1569	1441	1563
	Phosphorus	ppm	ASTM D5185m		919	913	938
	Zinc	ppm	ASTM D5185m		1163	1069	1151
	Sulfur	ppm	ASTM D5185m		3541	3336	3325
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.1	15.5	16.2
	Base Number (BN)	ma KOH/a	ASTM D2896	13.6	8.6	8.8	7.9
	Dasc Hamber (DIA)	9	7101111 22000				







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0218639 Lab Number : 06223322

Tested Unique Number : 11101519

Received : 28 Jun 2024 : 01 Jul 2024 Diagnosed

: 01 Jul 2024 - Wes Davis

JRE - MANASSAS PARK 9107 OWENS DRIVE MANASSAS PARK, VA US 20111

Contact: TECHNICIAN ACCOUNT catherine.anastasio@wearcheck.com T:

Test Package : CONST (Additional Tests: TBN) 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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