WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

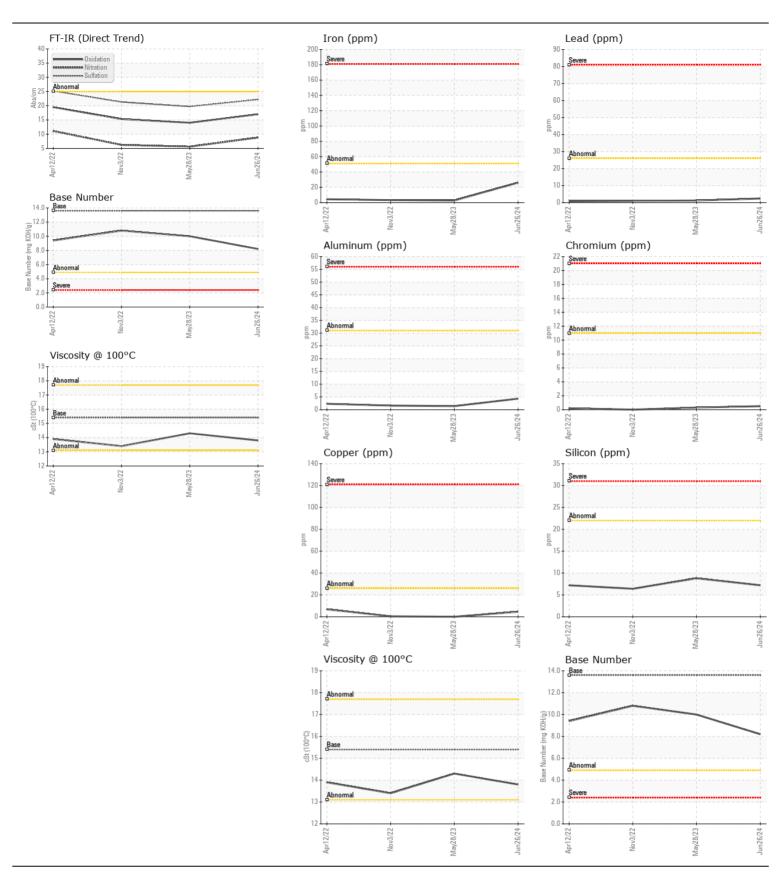
[W9108]

## **JOHN DEERE 160G 1FF160GXJMF058343**

Diesel Engine

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. ( Customer Sample Comment: W9108)	Sample Number		Client Info		JR0197272	JR0167516	JR0082420
	Sample Date		Client Info		26 Jun 2024	28 May 2023	03 Nov 202
	Machine Age	hrs	Client Info		2466	2165	1993
	Oil Age	hrs	Client Info		301	172	1993
	Filter Age	hrs	Client Info		301	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>51	26	3	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	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	1	2
	Lead	ppm	ASTM D5185m		2	1	1
	Copper	ppm	ASTM D5185m		5	0	<1
	Tin	ppm	ASTM D5185m		<1	0	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	nnm	ASTM D5185m	. 22	7	9	6
ONTAMINATION	Potassium	ppm	ASTM D5185m		2	3	3
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	>0.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 2	0.3	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624		8.8	5.6	6.2
	Sulfation	Abs/.1mm	*ASTM D7024		22.2	19.7	21.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
LUD CONDITION	0 "		40TM DE405	04			
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4	007	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		164	267	210
	Barium	ppm	ASTM D5185m		<1	0	2
	Molybdenum	ppm	ASTM D5185m		238	229	205
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		843	809	639
	Calcium	ppm	ASTM D5185m		1571	1384	1709
	Phosphorus	ppm	ASTM D5185m		904	898	868
	Zinc	ppm	ASTM D5185m		1130	1076	1032
	Sulfur	ppm Aba/dama	ASTM D5185m	05	3442	3937	3466
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	14.0	15.3
	Base Number (BN)	ma 1/011/-	ACTM DODGO	100	8.2	10.0	10.8







Laboratory Sample No. Unique Number : 11101518

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06223321

: JR0197272

Received **Tested** Diagnosed

: 28 Jun 2024 : 01 Jul 2024 : 01 Jul 2024 - Don Baldridge

5039 HWY 301 SOUTH HOPE MILLS, NC US 28348 Contact: FAYETTEVILLE SHOP

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

stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com T:

JRE - HOPE MILLS/FAYETTEVILLE

\* - 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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