

## Machine Id

## JOHN DEERE 544G 1YN544GAKPLA00129

**Diesel Engine** 

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0220188	JR0206238	JR0189124
Resample at the next service interval to monitor.	Sample Date		Client Info		07 Jul 2024	19 Apr 2024	03 Nov 2023
	Machine Age	hrs	Client Info		1518	1136	546
	Oil Age	hrs	Client Info		382	590	546
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	9	17	28
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	2
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		4	3	4
	Lead	ppm	ASTM D5185m		<1	0	1
	Copper	ppm	ASTM D5185m		6	52	▲ 545
	Tin	ppm	ASTM D5185m	>4	0	0	2
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
					_		
CONTAMINATION	Silicon	ppm	ASTM D5185m		5	6	12
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	<1	4
	Fuel		WC Method		<1.0	<1.0	0.3
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol Soot %	%	WC Method *ASTM D7844	. 0	NEG 0.2	NEG	NEG
	Nitration		*ASTM D7644	>3 >20	8.0	0.3 8.7	0.2 8.3
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624		21.1	22.5	21.9
	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	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	3	<1
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		278	246	252
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	1	8
	Molybdenum	ppm	ASTM D5185m		233	244	246
	Manganese	ppm	ASTM D5185m		<1	<1	6
	Magnesium	ppm	ASTM D5185m		758	809	755
	Calcium	ppm	ASTM D5185m		1429	1418	1408
	Phosphorus	ppm	ASTM D5185m		1017	883	915
	Zinc	ppm	ASTM D5185m		1121	1092	1066
	Sulfur	ppm	ASTM D5185m		3692	3324	2806
	Oxidation		*ASTM D7414		15.5	17.0	17.0
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.5	8.5	8.6

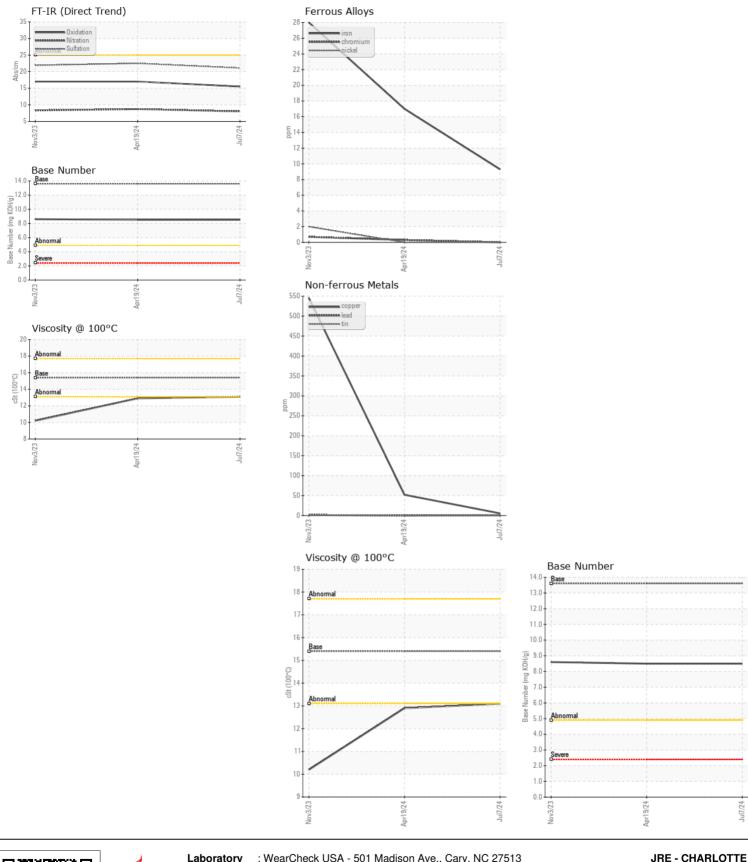
Visc @ 100°C cSt

ASTM D445 15.4

12.9

0.2

13.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - CHARLOTTE** Ē Sample No. : JR0220188 Received 9550 STATESVILLE ROAD : 09 Jul 2024 Lab Number : 06231261 Tested : 10 Jul 2024 CHARLOTTE, NC Unique Number : 11114754 Diagnosed : 10 Jul 2024 - Wes Davis US 28269 Test Package : CONST (Additional Tests: TBN) Contact: CHARLOTTE SHOP Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. myoung@jamesriverequipment.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (704)597-0211 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (704)596-6198

Submitted By: Mike Young - CHARLOTTE SHOP Page 2 of 2