WEAR CONTAMINATION FLUID CONDITION **ATTENTION ABNORMAL NORMAL**

[44640]

JOHN DEERE 325G 1T0325GKCMJ390362

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0203354	JR0176140	JR015771
	Sample Date		Client Info		13 Feb 2024	06 Jul 2023	11 Jan 202
	Machine Age	hrs	Client Info		2437	1930	1437
	Oil Age	hrs	Client Info		507	493	481
	Filter Age	hrs	Client Info		0	493	481
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>51	34	34	33
	Chromium	ppm	ASTM D5185m		<1	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	▲ 11	8	4
	Lead	ppm	ASTM D5185m	>26	<1	0	0
	Copper	ppm	ASTM D5185m	>26	3	5	10
	Tin	ppm	ASTM D5185m	>4	1	<1	<1
	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	\22	<u>^</u> 22	21	18
	Potassium	ppm	ASTM D5185m		3	2	2
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	, 0.2.	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	1	0.8
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.9	9.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.4	30.3	28.2
	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	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	1	1	0
ESIB SONDITION	Boron	ppm	ASTM D5185m	701	148	194	179
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		192	268	272
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		649	899	758
	Calcium	ppm	ASTM D5185m		1284	1505	1454
	Phosphorus	ppm	ASTM D5185m		807	870	782
	Zinc	ppm	ASTM D5185m		1017	1144	1001
	Sulfur	ppm	ASTM D5185m		2477	3350	2481
	Oxidation	Abs/.1mm	*ASTM D7414	>25	25.8	28.5	26.5
	Base Number (BN)	mg KOH/g	ASTM D2896	10.5	7.0	7.5	6.8

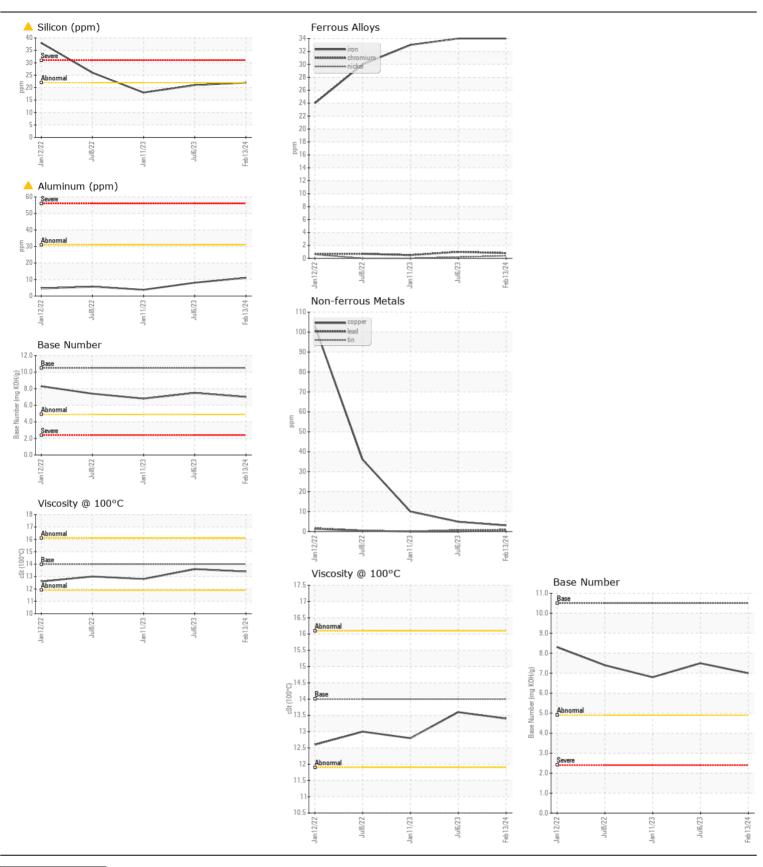
Visc @ 100°C cSt

ASTM D445 14

13.4

13.6

12.8







Laboratory Sample No.

Lab Number : 06089438 Unique Number : 10876883

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0203354

Received **Tested** Diagnosed

: 14 Feb 2024 : 15 Feb 2024

: 16 Feb 2024 - Don Baldridge

BRISTOW, VA US 20136 Contact: DANNY HUFF dhuff@bandssite.com

B & S SITE DEVLEOPMENT

7800 PINEY BRANCH LANE

T: (540)270-3203 F: (703)753-0605

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)