



**WEAR CONTAMINATION FLUID CONDITION** 

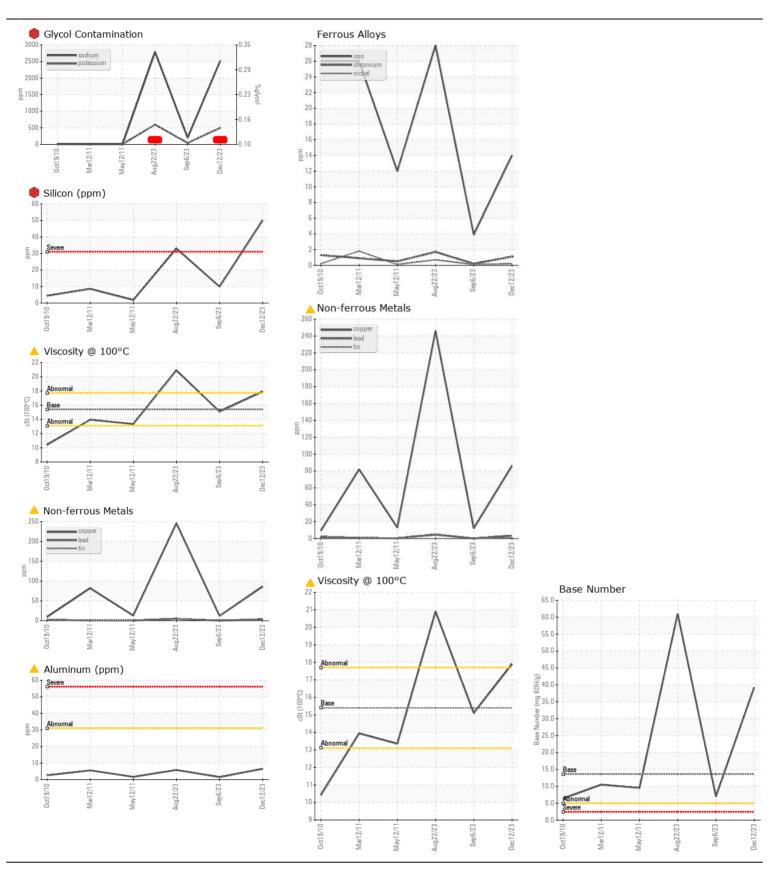
**ABNORMAL SEVERE ABNORMAL** 

**Store 9 - Marietta [146001]** 

## JOHN DEERE 672G GRADER 1DW672GXCA0628964

Component

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
RECOMMENDATION	Sample Number	UCIVI	Client Info	LIIIIIUAUII	LEC0044734	LEC0043553	LEC004053
We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. ( Customer Sample Comment: coolant found in engine oil pan )	Sample Date		Client Info		12 Dec 2023	06 Sep 2023	22 Aug 202
	Machine Age	hrs	Client Info		6816	6773	6771
	Oil Age	hrs	Client Info		45	2	0
	Filter Age	hrs	Client Info		45	2	0
	Oil Changed		Client Info		Not Changd	Changed	Not Chang
	Filter Changed		Client Info		Not Changd	Ŭ	Not Chang
	Sample Status				SEVERE	ABNORMAL	SEVERE
MEAD	Iron	nnm	ACTM DE10Em	. 51	4.4	Л	20
WEAR	Iron	ppm	ASTM D5185m		14	4	28
The copper level is abnormal. All other component wear rates are normal.	Chromium Nickel	ppm	ASTM D5185m		1 .4	<1	2
	Titanium	ppm	ASTM D5185m ASTM D5185m	>5	<1	<1 0	<1 <1
	Silver	ppm	ASTM D5185m	. 2	<1 <1		0
	Aluminum	ppm	ASTM D5185m		< 1 ▲ 6	<1 2	6
	Lead	ppm	ASTM D5185m		3	0	5
	Copper	ppm	ASTM D5185m		<u> </u>	12	<u>^</u> 246
	Tin	ppm	ASTM D5185m		<1	<1	4
	Vanadium	ppm	ASTM D5185m	7 7	<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	<b>5</b> 0	10	<b>3</b> 3
Sodium and/or potassium levels are high. Test for glycol is positive. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.	Potassium	ppm	ASTM D5185m	>20	<b>494</b>	39	<b>△</b> 595
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		0.12	NEG	0.12
	Soot %	%	*ASTM D7844	>3	0.1	0.5	0.2
	Nitration	Abs/cm		>20	10.2	9.7	20.4
	Sulfation	Abs/.1mm	*ASTM D7415		18.7	21.5	7.1
	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	"VISUAI	>0.21	NEG	0.2%	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<b>2516</b>	<b>2</b> 00	<u>2785</u>
	Boron	ppm	ASTM D5185m		320	284	312
The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		562	249	636
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		549	760	463
	Calcium	ppm	ASTM D5185m		1157	1560	1226
	Phosphorus	ppm	ASTM D5185m	_	882	939	691
	Zinc	ppm	ASTM D5185m		954	1162	766
	Sulfur	ppm	ASTM D5185m		2943	3930	2720
	Oxidation	Abs/.1mm	*ASTM D7414	>25	11.3	17.0	19.2
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	39.2	7.0	61.0
				15.4		15.1	<b>2</b> 0.9







Laboratory Sample No. Lab Number **Unique Number** 

: LEC0044734 : 06034446 : 10789675

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 14 Dec 2023 Recieved : 18 Dec 2023 Diagnosed

Diagnostician : Jonathan Hester

Test Package : CONST ( Additional Tests: Glycol, 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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