

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id JOHN DEERE 210G 1FF210GXCKF527819

Diesel Engine

SHELL 15W40 (--- GAL)

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No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

	rest	UOIVI	Method	Limit/Abn	Current	History I	HISTORY2
	Sample Number		Client Info		JR0207888	JR0105208	JR0082882
	Sample Date		Client Info		09 Apr 2024	17 Aug 2022	26 Mar 2021
	Machine Age	hrs	Client Info		3638	2671	896
	Oil Age	hrs	Client Info		0	30	424
	Filter Age	hrs	Client Info		0	30	424
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
	lvon		ACTM DE10Em	. 51	A F4	7	O.E.
	Iron	ppm	ASTM D5185m	>51	<u> </u>	7	25
	Chromium	ppm	ASTM D5185m	>11	0	<1	<1

WEAR

Cylinder, crank, or cam shaft wear is indicated.

Iron	ppm	ASTM D5185m	>51	<u>▲</u> 51	7	25
Chromium	ppm	ASTM D5185m	>11	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	3	<1	7
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m	>31	2	3	<1
Lead	ppm	ASTM D5185m	>26	0	<1	<1
Copper	ppm	ASTM D5185m	>26	3	<1	44
Tin	ppm	ASTM D5185m	>4	0	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NON
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NON

CONTAMINATION

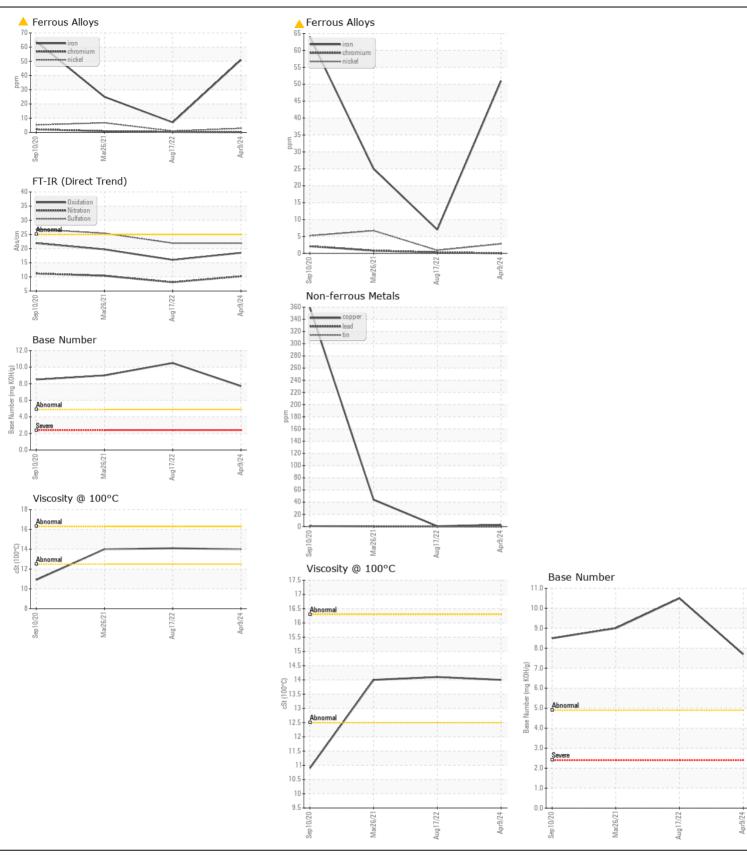
There is no indication of any contamination in the oil.

wille Metai	Scalai	Visuai	NONE	INOINE	INOINL	INOINE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>22	6	6	3
Potassium	ppm	ASTM D5185m	>20	0	2	3
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.9	0.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	10.2	8.1	10.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	21.9	25.4
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	scalar	*Visual	>0.21	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>150	5	2	3
Boron	ppm	ASTM D5185m		28	213	177
Barium	ppm	ASTM D5185m		0	2	<1

FLUID CONDITION

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.

Sodium	ppm	ASTM D5185m	>150	5	2	3
Boron	ppm	ASTM D5185m		28	213	177
Barium	ppm	ASTM D5185m		0	2	<1
Molybdenum	ppm	ASTM D5185m		53	231	218
Manganese	ppm	ASTM D5185m		0	<1	1
Magnesium	ppm	ASTM D5185m		566	766	669
Calcium	ppm	ASTM D5185m		1810	1360	1712
Phosphorus	ppm	ASTM D5185m		1126	877	931
Zinc	ppm	ASTM D5185m		1310	1077	1042
Sulfur	ppm	ASTM D5185m		3669	3171	2666
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	16.0	19.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	10.5	9
Visc @ 100°C	cSt	ASTM D445		14.0	14.1	14.0







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0207888 Lab Number : 06146991

Unique Number : 10977069

Received : 12 Apr 2024 **Tested** Diagnosed

: 15 Apr 2024 : 15 Apr 2024 - Sean Felton

JRE - ASHEVILLE 101 BRUCE DRIVE ASHEVILLE, NC US 28806 Contact: Randy Warren

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

randy.warren@jamesriverequipment.com T: (528)667-0176

* - 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) F: (828)667-4865