



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[W10037]

Machine Id

JOHN DEERE 180G 1FF180GXEJF020853

Component

Diesel Engine

Fluid

{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

The water content is negligible. There is no indication of any contamination in the oil.

FLUID CONDITION

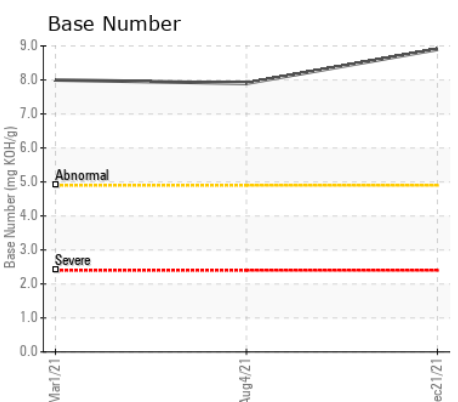
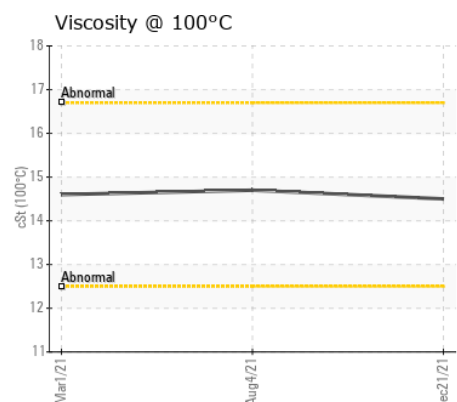
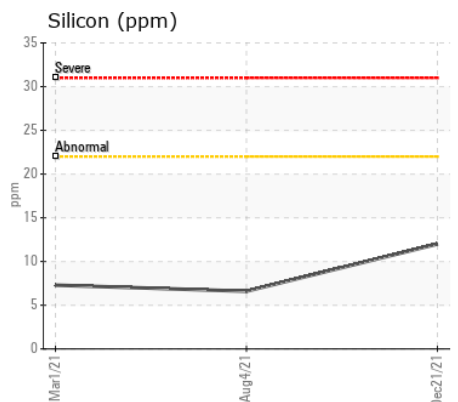
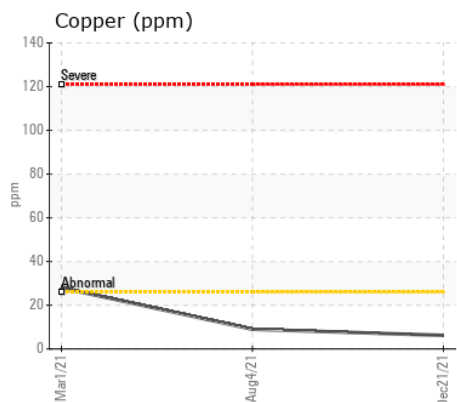
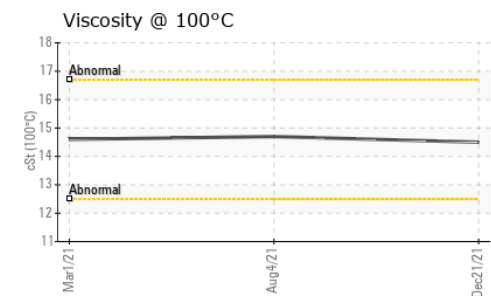
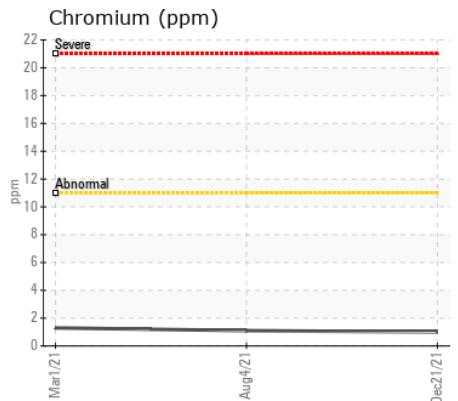
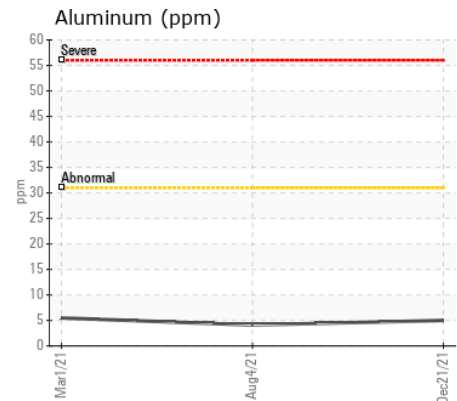
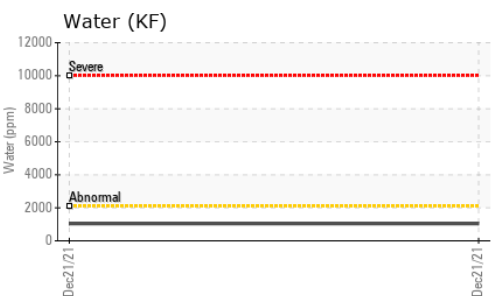
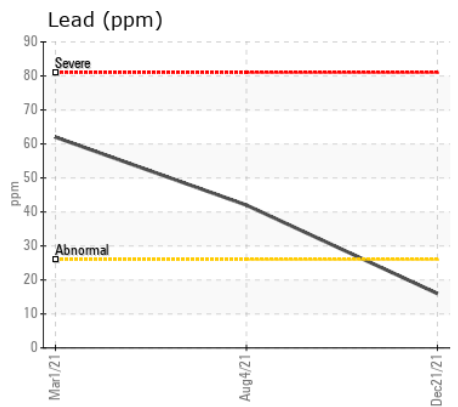
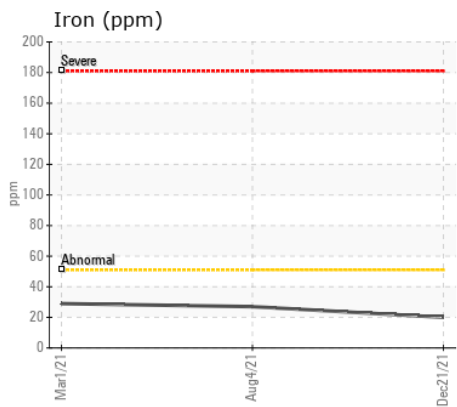
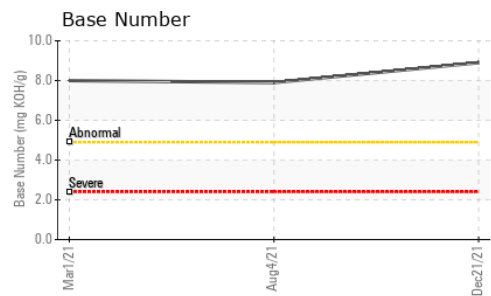
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0110221	JR0096278	JR0073026
Sample Date		Client Info		21 Dec 2021	04 Aug 2021	01 Mar 2021
Machine Age	hrs	Client Info		1949	1600	1153
Oil Age	hrs	Client Info		0	500	500
Filter Age	hrs	Client Info		0	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>51	20	27	29
Chromium	ppm	ASTM D5185m	>11	1	1	1
Nickel	ppm	ASTM D5185m	>5	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>31	5	4	6
Lead	ppm	ASTM D5185m	>26	16	▲ 42	▲ 62
Copper	ppm	ASTM D5185m	>26	6	9	▲ 28
Tin	ppm	ASTM D5185m	>4	<1	2	2
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>22	12	7	7
Potassium	ppm	ASTM D5185m	>20	<1	4	<1
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water	%	ASTM D6304	>0.21	0.104	---	---
ppm Water	ppm	ASTM D6304	>2100	1040	---	---
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.4	11.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	24.8	27.9
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	scalar	*Visual	>0.21	NEG	NEG	NEG

Sodium	ppm	ASTM D5185m	>31	4	4	5
Boron	ppm	ASTM D5185m		124	82	67
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		237	177	261
Manganese	ppm	ASTM D5185m		<1	<1	2
Magnesium	ppm	ASTM D5185m		833	574	951
Calcium	ppm	ASTM D5185m		1489	1988	1622
Phosphorus	ppm	ASTM D5185m		877	1018	917
Zinc	ppm	ASTM D5185m		1009	1196	1156
Sulfur	ppm	ASTM D5185m		2374	2907	2521
Oxidation	Abs/.1mm	*ASTM D7414	>25	20	20.7	23.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.9	7.9	8
Visc @ 100°C	cSt	ASTM D445		14.5	14.7	14.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0110221 **Received** : 22 Dec 2021
Lab Number : 05429604 **Tested** : 23 Dec 2021
Unique Number : 9788796 **Diagnosed** : 23 Dec 2021 - Wes Davis
Test Package : MOBCE (Additional Tests: KF, TBN)

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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)