



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[BANKS MASSEY]**  
 Machine Id  
**JOHN DEERE 210G 1FF210GXAFF523486**  
 Component  
**Diesel Engine**  
 Fluid  
**JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>JR0191583</b>	JR0065283	JRMC450932
Sample Date		Client Info		<b>23 Jan 2024</b>	11 Dec 2020	13 Jun 2018
Machine Age	hrs	Client Info		<b>5048</b>	3275	1864
Oil Age	hrs	Client Info		<b>500</b>	0	500
Filter Age	hrs	Client Info		<b>500</b>	0	500
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	<b>24</b>	▲ 108	▲ 79
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	7	5
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>6</b>	9	6
Lead	ppm	ASTM D5185m	>26	<b>0</b>	1	1
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	9	20
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

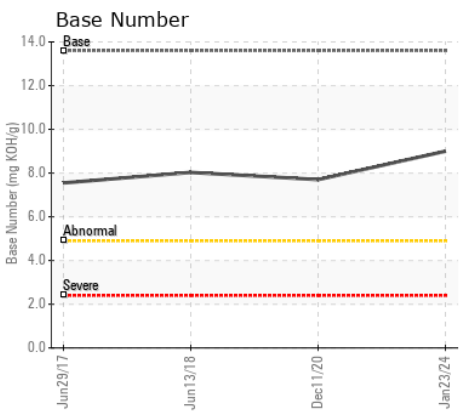
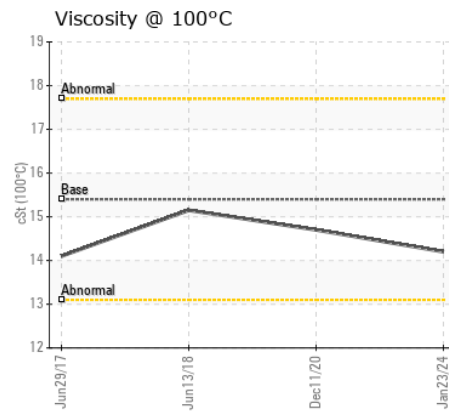
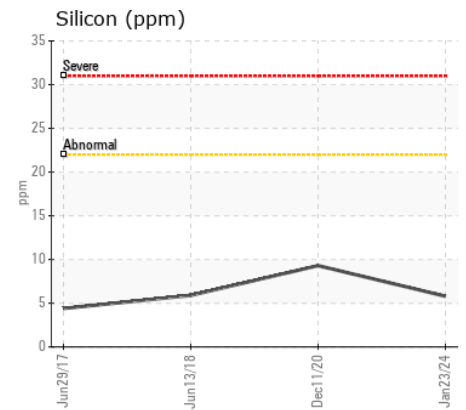
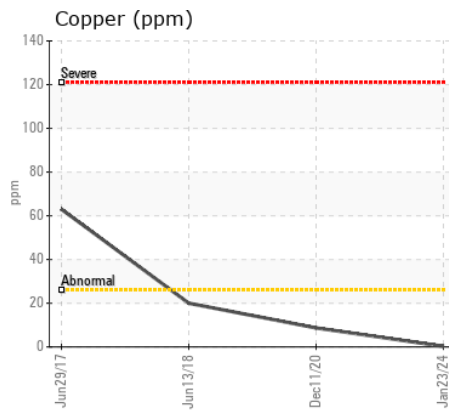
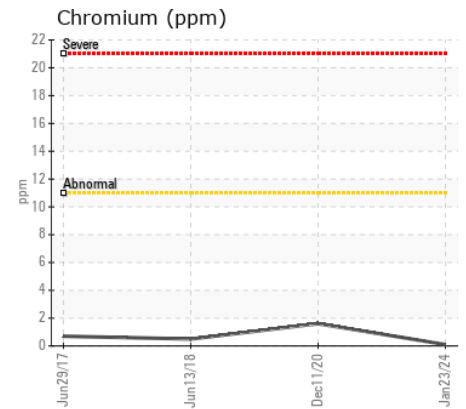
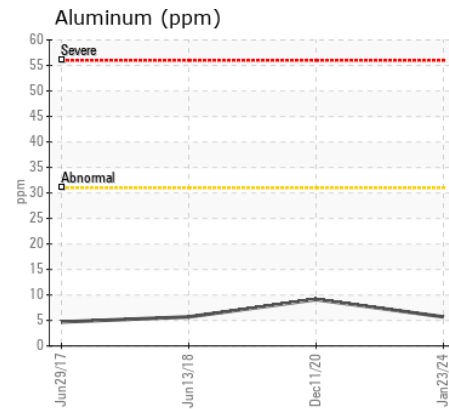
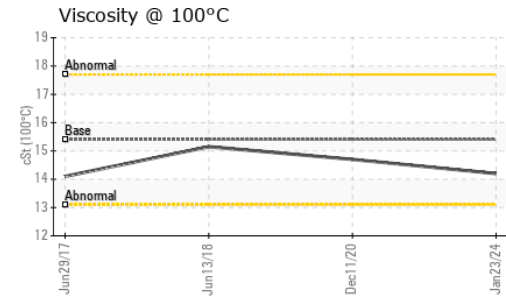
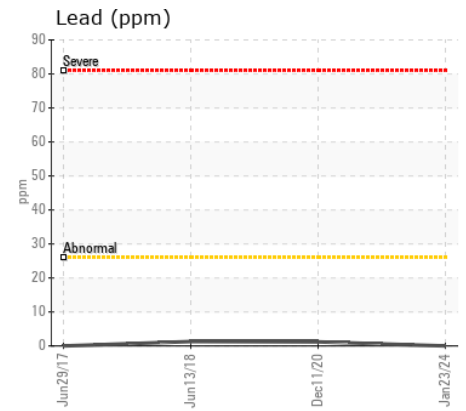
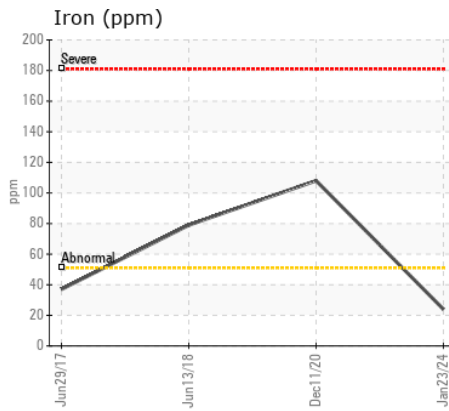
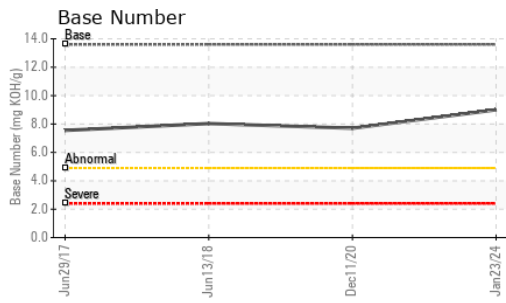
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	<b>6</b>	9	6
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	6	1
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.21	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.8	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.7</b>	12	9.
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.0</b>	29	23.
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	<b>NEG</b>	NEG	NEG

### 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.

Sodium	ppm	ASTM D5185m	>31	<b>2</b>	7	5
Boron	ppm	ASTM D5185m		<b>275</b>	24	35
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>254</b>	271	239
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>833</b>	952	794
Calcium	ppm	ASTM D5185m		<b>1338</b>	1584	1390
Phosphorus	ppm	ASTM D5185m		<b>913</b>	889	876
Zinc	ppm	ASTM D5185m		<b>1090</b>	1113	928
Sulfur	ppm	ASTM D5185m		<b>3027</b>	2439	2640
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	23.1	18.
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	<b>9.0</b>	7.7	8.03
Visc @ 100°C	cSt	ASTM D445	15.4	<b>14.2</b>	14.7	15.15



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0191583 **Received** : 30 Jan 2024  
**Lab Number** : 06074320 **Diagnosed** : 31 Jan 2024  
**Unique Number** : 10856411 **Diagnostician** : Wes Davis  
**Test Package** : MOBCE ( Additional Tests: TBN )

**HDS EQUIPMENT MECK COUNTY**  
 5590 W LIBERTY HILL RD  
 YORK, SC  
 US 29745  
 Contact: JAKE HARRELL  
 JAKEHARRELLHDS@GMAIL.COM  
 T:  
 F:

Certificate L2367  
 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)