



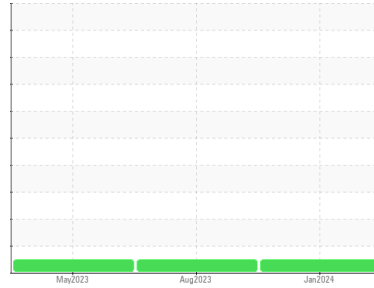
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
John Deere 210G JM210G
Component
Diesel Engine
Fluid
BOSS LUBRICANTS BLUE RAM DIESEL 15W40 (--- LTR)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0818954	WC0818958	WC0818948
Sample Date	Client Info		10 Jan 2024	11 Aug 2023	12 May 2023
Machine Age	hrs	Client Info	5619	5394	5228
Oil Age	hrs	Client Info	225	200	0
Oil Changed	Client Info		Changed	Changed	Not Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
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

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>51	33	38	9
Chromium	ppm	ASTM D5185(m)	>11	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>31	7	4	2
Lead	ppm	ASTM D5185(m)	>26	<1	2	<1
Copper	ppm	ASTM D5185(m)	>26	1	1	<1
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		77	70	74
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		93	60	41
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		308	373	315
Calcium	ppm	ASTM D5185(m)		2027	1876	1851
Phosphorus	ppm	ASTM D5185(m)		862	1015	1048
Zinc	ppm	ASTM D5185(m)		1005	1138	1117
Sulfur	ppm	ASTM D5185(m)		2890	2791	2849
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

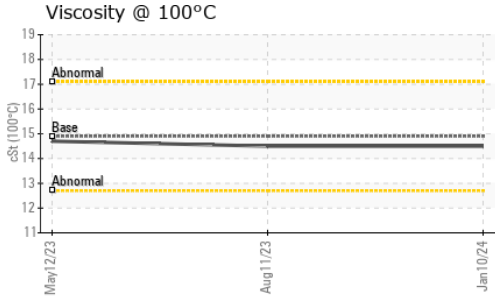
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>22	5	6	5
Sodium	ppm	ASTM D5185(m)	>31	4	6	3
Potassium	ppm	ASTM D5185(m)	>20	12	3	0

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.5	0.4	0
Nitration	Abs/cm	ASTM D7624*	>20	7.9	7.0	4.5
Sulfation	Abs./1mm	ASTM D7415*	>30	19.6	20.5	18.4

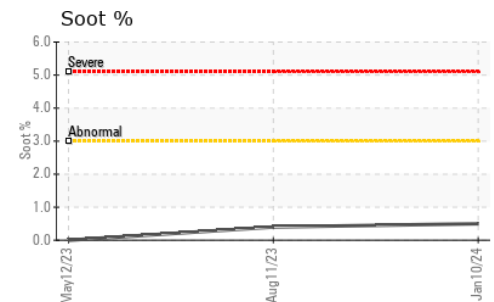
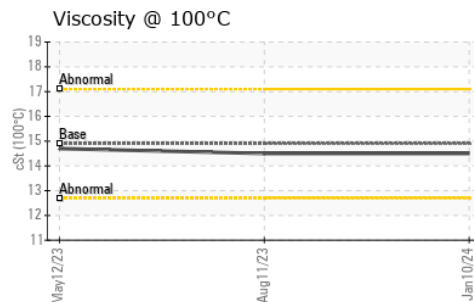
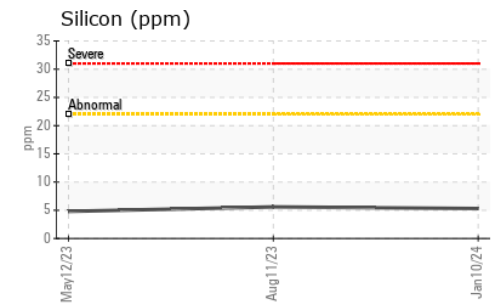
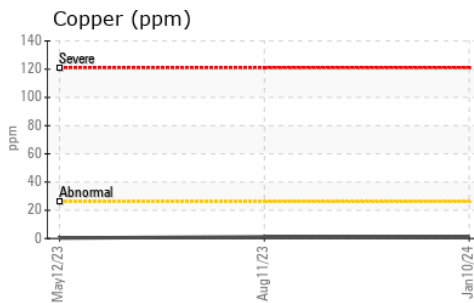
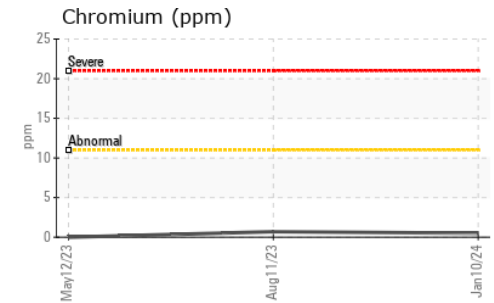
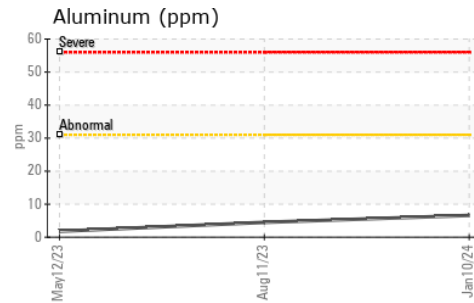
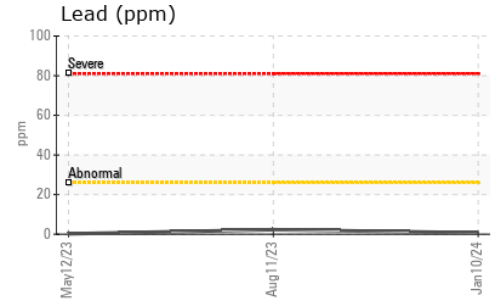
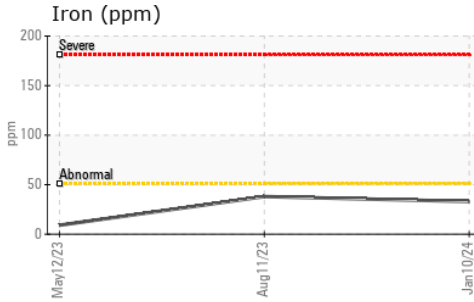


OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	12.9	14.0	12.1
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.9	14.5	14.5	14.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0818954 **Received** : 22 Jan 2024
Lab Number : **02610447** **Diagnosed** : 22 Jan 2024
Unique Number : 5711533 **Diagnostician** : Wes Davis
Test Package : MOB 1

JD MOBILE REPAIR SERVICE
 183841 GREY ROAD #9
 HOLSTEIN, ON
 CA N0G 2A0
 Contact: John Dowling
 dozerdoctor@hotmail.com
 T: (519)604-8247
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.