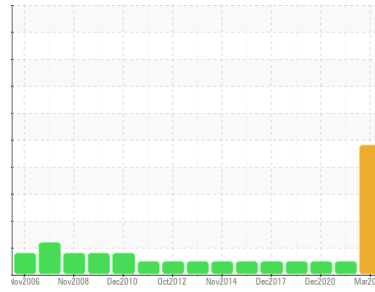




# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**JOHN DEERE M0611**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (10 LTR)**

## DIAGNOSIS

**▲ Recommendation**  
 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 from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

**Wear**  
 Metal levels are typical for a new component breaking in.

**▲ Contamination**  
 High concentration of dirt present in the oil.

**Fluid Condition**  
 The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0836729</b>	WC0581994	WC0510701
Sample Date	Client Info			<b>20 Mar 2024</b>	14 Mar 2022	22 Dec 2020
Machine Age	hrs	Client Info		<b>428</b>	412	401
Oil Age	hrs	Client Info		<b>9</b>	21	11
Oil Changed	Client Info			<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>SEVERE</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	<b>1</b>	1	2
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>&lt;1</b>	<1	1
Lead	ppm	ASTM D5185(m)	>26	<b>2</b>	<1	5
Copper	ppm	ASTM D5185(m)	>26	<b>1</b>	<1	1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

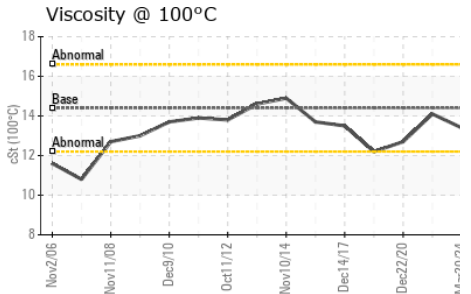
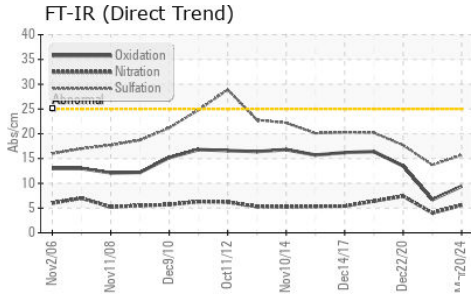
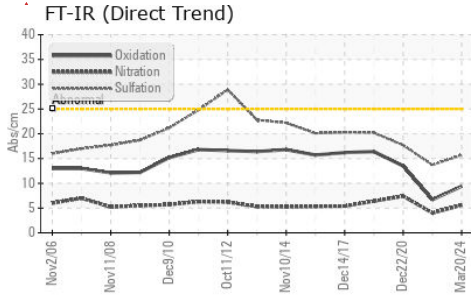
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>9</b>	6	69
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>4</b>	4	66
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>20</b>	13	16
Calcium	ppm	ASTM D5185(m)	3000	<b>2064</b>	2075	1992
Phosphorus	ppm	ASTM D5185(m)	1150	<b>761</b>	850	879
Zinc	ppm	ASTM D5185(m)	1350	<b>850</b>	950	1050
Sulfur	ppm	ASTM D5185(m)	4250	<b>2638</b>	2924	3099
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	<b>▲ 218</b>	9	15
Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	1	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.6</b>	4.0	7.4
Sulfation	Abs.1mm	ASTM D7415*	>30	<b>15.7</b>	13.7	17.7



# OIL ANALYSIS REPORT

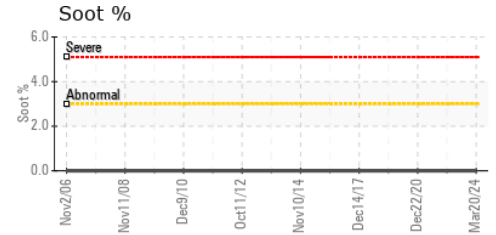
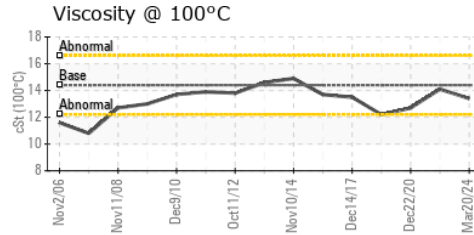
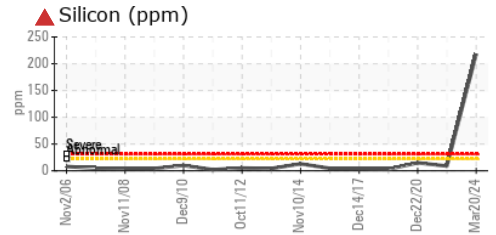
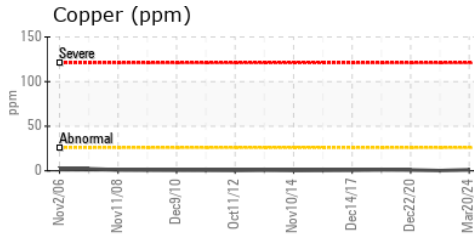
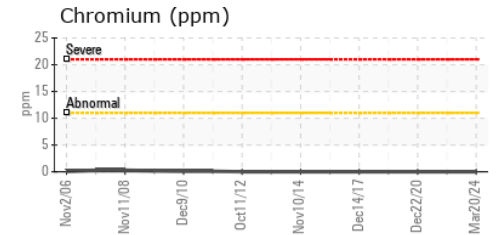
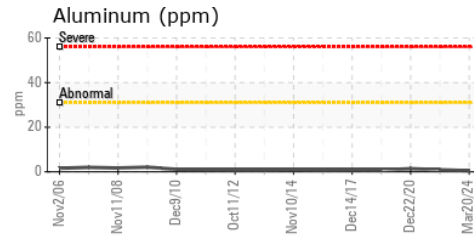
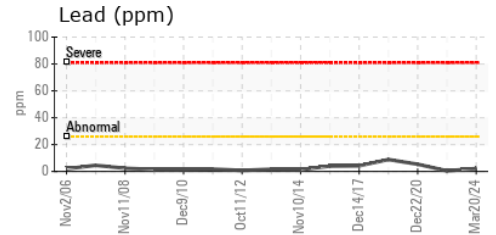
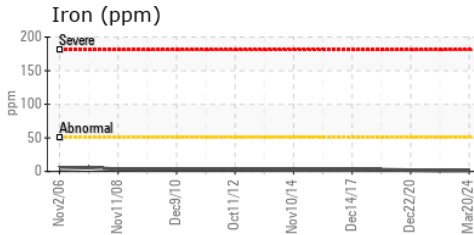


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>9.4</b>	6.7	13.5

VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	Visual*	NONE	---	NONE	
Yellow Metal	scalar	Visual*	NONE	---	NONE	
Precipitate	scalar	Visual*	NONE	---	NONE	
Silt	scalar	Visual*	NONE	---	NONE	
Debris	scalar	Visual*	NONE	---	VLITE	
Sand/Dirt	scalar	Visual*	NONE	---	NONE	
Appearance	scalar	Visual*	NORML	---	NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>13.4</b>	14.1	12.7

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0836729 **Received** : 19 Apr 2024  
**Lab Number** : **02630090** **Tested** : 19 Apr 2024  
**Unique Number** : 5763222 **Diagnosed** : 22 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**GENCARE SERVICES LTD.**  
 360 SOVEREIGN ROAD  
 LONDON, ON  
 CA N6M 1A8  
 Contact: Teresa Matthews  
 tmatthews@gencare.com  
 T: (519)659-7118  
 F: (519)451-1707

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.