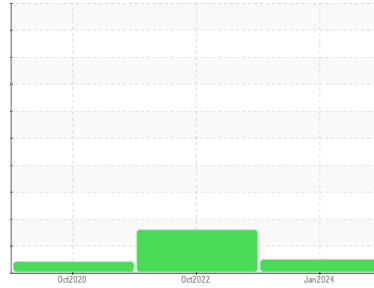


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**SHEDIAC SEWERAGE [6100246557]**  
Machine Id  
**JOHN DEERE PE4045N018398**

Component  
**Diesel Engine**  
Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

**DIAGNOSIS**

**Recommendation**  
Resample at the next service interval to monitor.

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

**Contamination**  
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			<b>WA0020803</b>	WA0018623	WA0015670
Sample Date	Client Info			<b>12 Jan 2024</b>	26 Oct 2022	14 Oct 2020
Machine Age	hrs	Client Info		<b>233</b>	184	102
Oil Age	hrs	Client Info		<b>49</b>	44	102
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.1		<b>&lt;1.0</b>	<1.0	0.7
Water	WC Method	>0.21		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	0.0	NEG

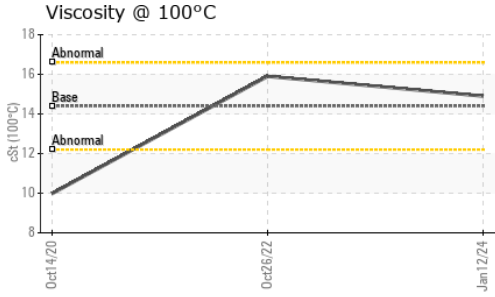
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	<b>3</b>	3	12
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>2</b>	3	7
Lead	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	<1	4
Copper	ppm	ASTM D5185(m)	>26	<b>2</b>	2	11
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	0	1
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>7</b>	62	259
Barium	ppm	ASTM D5185(m)	10	<b>0</b>	0	3
Molybdenum	ppm	ASTM D5185(m)	100	<b>58</b>	75	253
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	2
Magnesium	ppm	ASTM D5185(m)	450	<b>879</b>	21	818
Calcium	ppm	ASTM D5185(m)	3000	<b>1073</b>	2176	1406
Phosphorus	ppm	ASTM D5185(m)	1150	<b>977</b>	1057	873
Zinc	ppm	ASTM D5185(m)	1350	<b>1110</b>	1100	1041
Sulfur	ppm	ASTM D5185(m)	4250	<b>2708</b>	3241	2676
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	<b>2</b>	4	10
Sodium	ppm	ASTM D5185(m)	>158	<b>4</b>	31	4
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	8	2

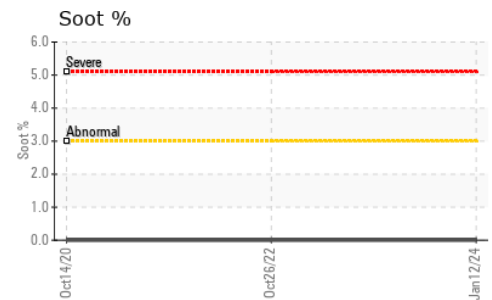
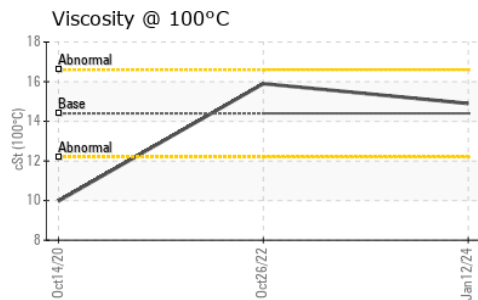
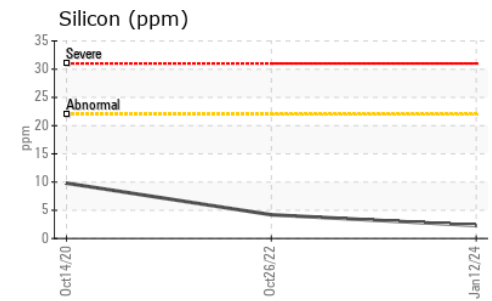
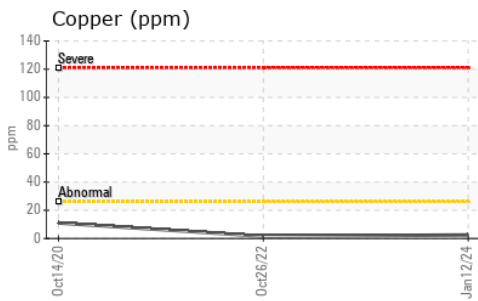
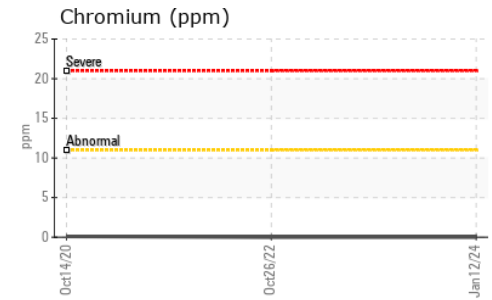
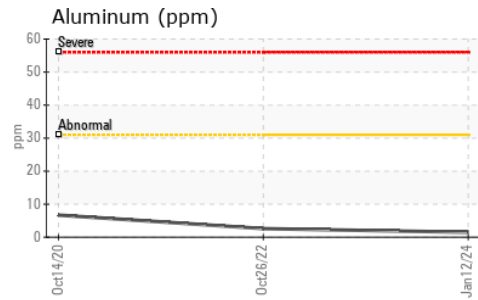
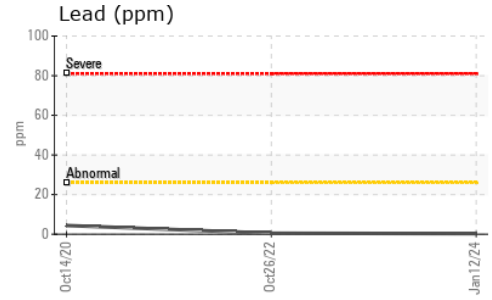
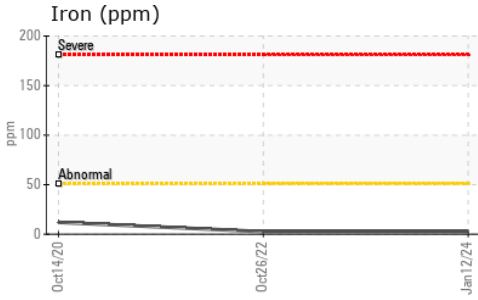
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.8</b>	7.9	6.1
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>18.3</b>	16.9	19.9

# OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>13.3</b>	12.5	15.4
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	▲ .2%	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>14.9</b>	15.9	▲ 9.98

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020803 **Received** : 17 Jan 2024  
**Lab Number** : 02609222 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 5710308 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

**Wajax Power Systems**  
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 MONCTON, NB  
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 dbalsler@wajax.com  
 T: (506)855-5371  
 F: (506)870-4448

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.