



**POWER SYSTEMS**  
**SYSTÈMES DE PUISSANCE**

**OIL ANALYSIS REPORT**

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

Area  
**HALIFAX WATER - 132 TRINITY LANE**

Machine Id  
**JOHN DEERE PE4045T504296**

Component  
**Diesel Engine**

Fluid  
**SHELL ROTELLA T 15W40 (--- GAL)**

**RECOMMENDATION**

Confirm the source of the lubricant being utilized for top-up/fill.  
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0020860</b>	WA0018595	WA0016902
Sample Date		Client Info		<b>29 Dec 2023</b>	27 Oct 2022	29 Oct 2021
Machine Age	hrs	Client Info		<b>4468</b>	422	322
Oil Age	hrs	Client Info		<b>0</b>	100	0
Filter Age	hrs	Client Info		<b>0</b>	100	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	<b>1</b>	3	1
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>26	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

**CONTAMINATION**

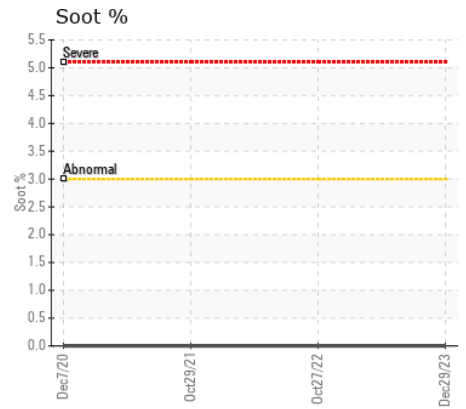
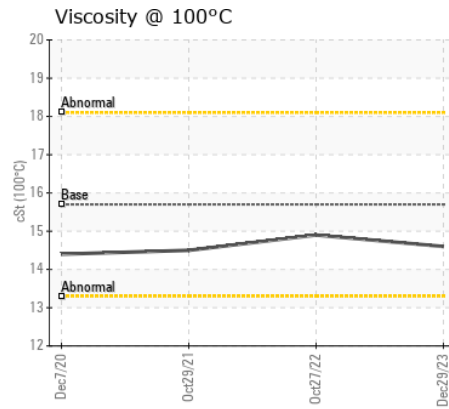
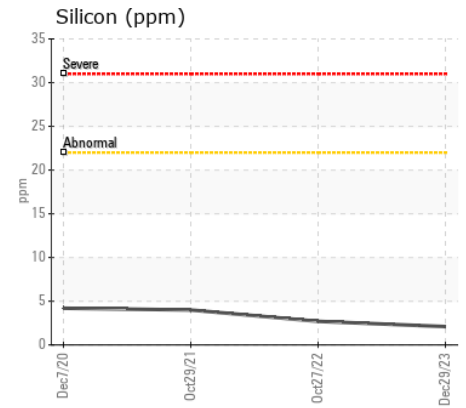
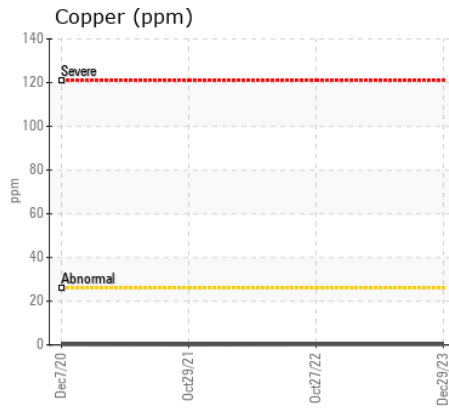
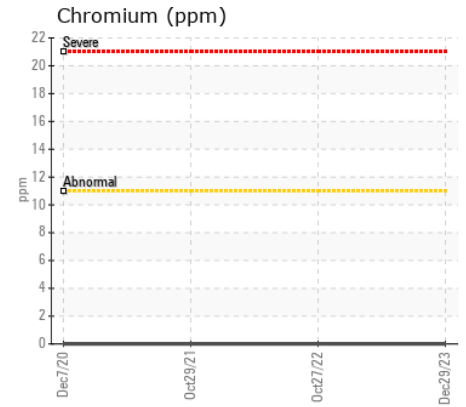
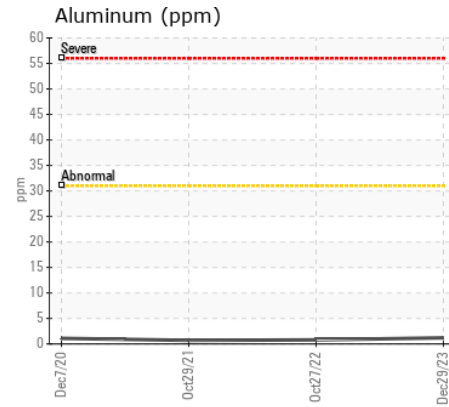
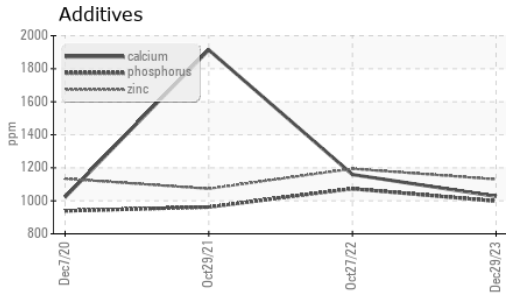
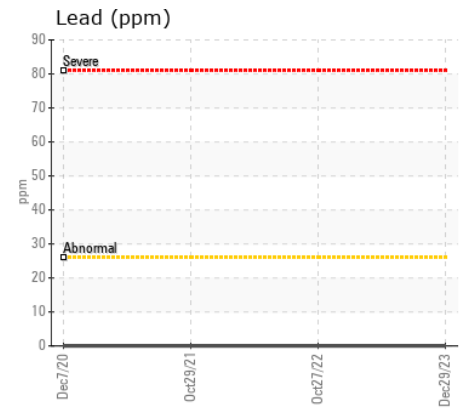
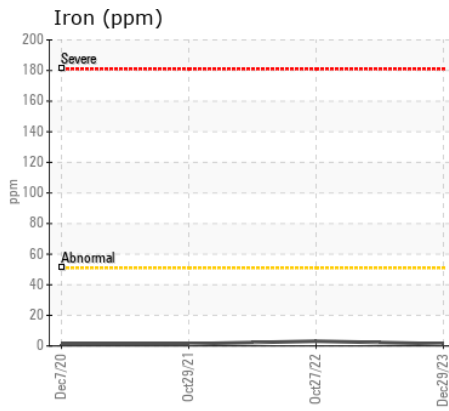
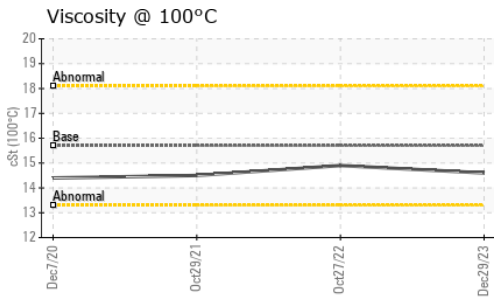
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>2</b>	3	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	7
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	0.0
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.6</b>	5.5	5.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.8</b>	18.9	21.0
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>31	<b>1</b>	2	2
Boron	ppm	ASTM D5185(m)	35	<b>2</b>	14	164
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>56</b>	52	5
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185(m)	10	<b>946</b>	878	88
Calcium	ppm	ASTM D5185(m)	2340	<b>1027</b>	1159	1914
Phosphorus	ppm	ASTM D5185(m)	1110	<b>998</b>	1073	962
Zinc	ppm	ASTM D5185(m)	1210	<b>1130</b>	1194	1073
Sulfur	ppm	ASTM D5185(m)	3890	<b>2717</b>	2706	2852
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>13.1</b>	14.2	15.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	<b>14.6</b>	14.9	14.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020860 **Received** : 09 Jan 2024  
**Lab Number** : 02607386 **Diagnosed** : 09 Jan 2024  
**Unique Number** : 5708472 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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.

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