



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

OIL ANALYSIS REPORT

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

Area  
**CITIGROUP PROPERTIES [6100237637]**

Machine Id  
**JOHN DEERE RG6081A115823**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON HP 15W40 (8 LTR)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0021045</b>	WA0017299	WA
Sample Date		Client Info		<b>11 Jan 2024</b>	21 Oct 2021	26 Oct 2020
Machine Age	hrs	Client Info		<b>820</b>	681	673
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>51	<b>2</b>	1	3
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>31	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>26	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

**CONTAMINATION**

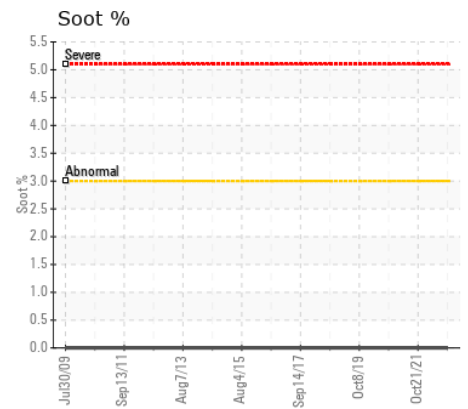
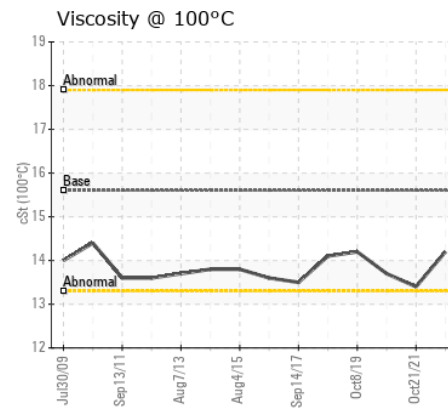
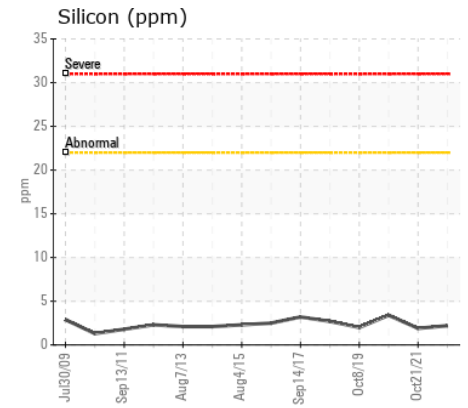
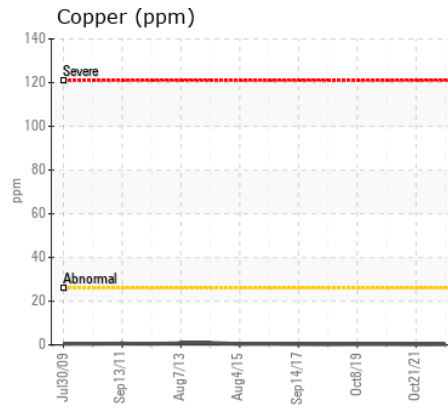
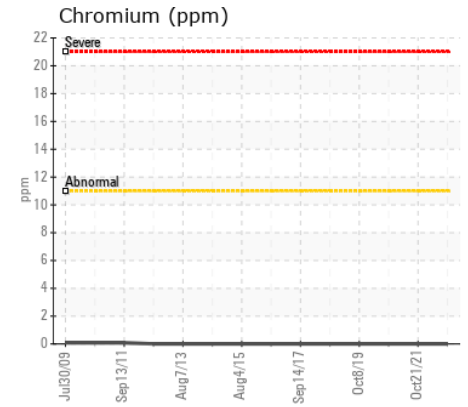
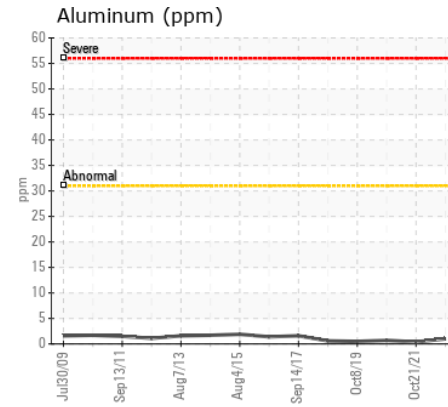
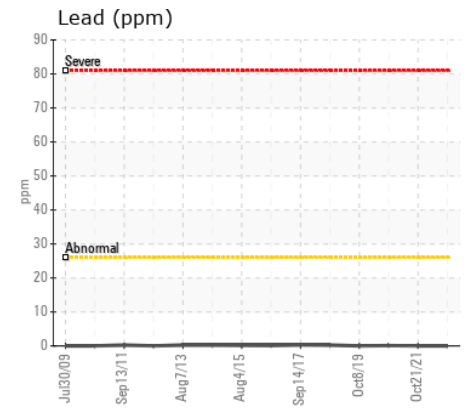
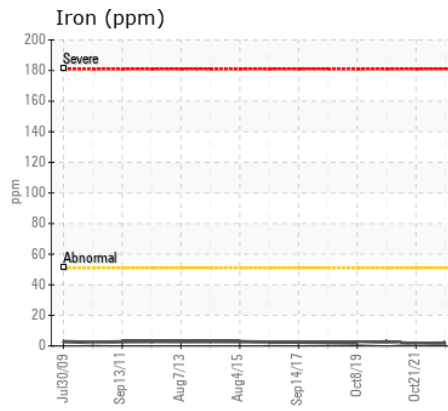
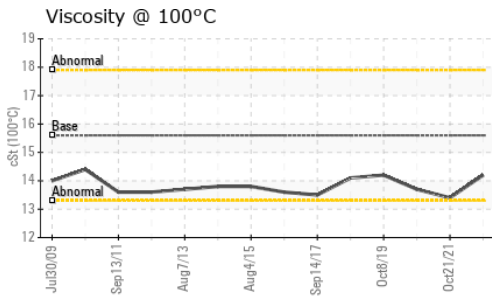
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>2</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	7	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>	0.0	0.0
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>4.5</b>	5.3	5.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>17.4</b>	21.1	20.5
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185(m)	>31	<b>&lt;1</b>	2	2
Boron	ppm	ASTM D5185(m)	0	<b>8</b>	183	180
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>54</b>	<1	2
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>907</b>	14	34
Calcium	ppm	ASTM D5185(m)	1070	<b>1042</b>	1983	2050
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1002</b>	967	955
Zinc	ppm	ASTM D5185(m)	1270	<b>1115</b>	1080	1133
Sulfur	ppm	ASTM D5185(m)	2060	<b>2712</b>	2890	3067
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.4</b>	16.2	16.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.2</b>	13.4	13.7



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA021045 **Received** : 16 Jan 2024  
**Lab Number** : 02608944 **Diagnosed** : 16 Jan 2024  
**Unique Number** : 5710030 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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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