



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 8330**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0741957</b>	WC0741944	WC0668716
Sample Date		Client Info		<b>01 Feb 2024</b>	10 Jan 2023	15 Jun 2022
Machine Age	hrs	Client Info		<b>5394</b>	5079	4942
Oil Age	hrs	Client Info		<b>315</b>	253	116
Filter Age	hrs	Client Info		<b>315</b>	253	116
Oil Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	<b>12</b>	16	14
Chromium	ppm	ASTM D5185(m)	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	<1	1
Aluminum	ppm	ASTM D5185(m)	>31	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>26	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185(m)	>26	<b>1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<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

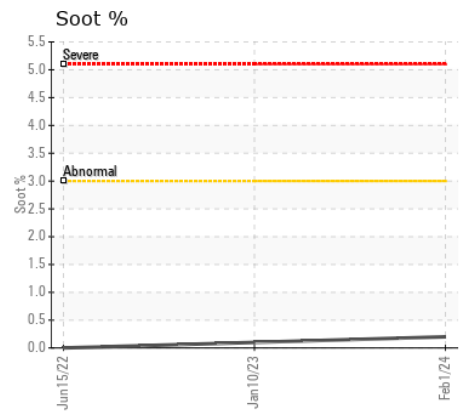
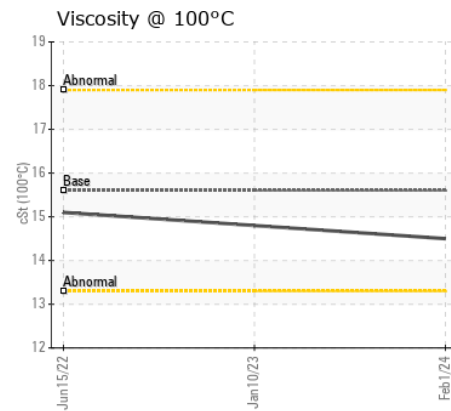
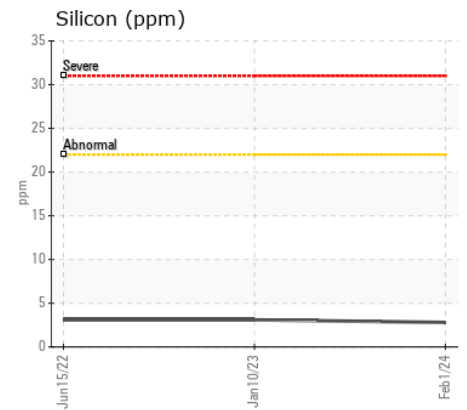
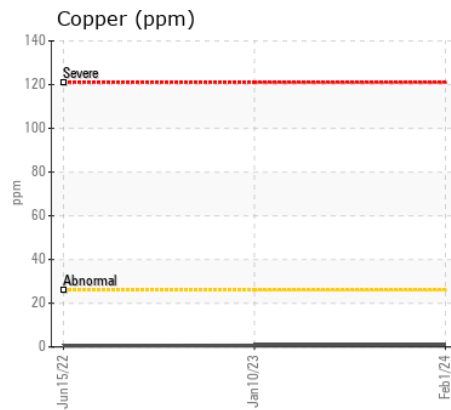
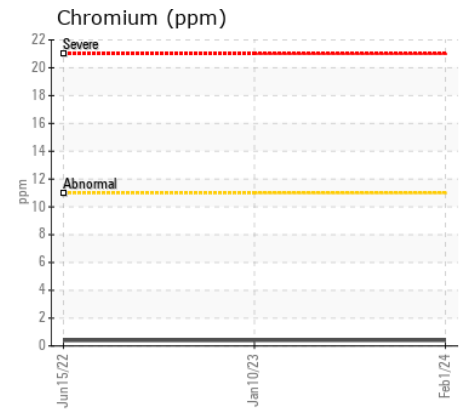
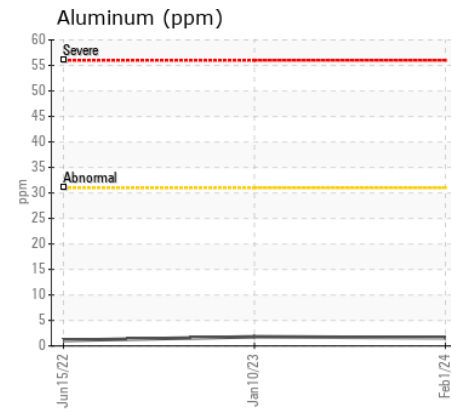
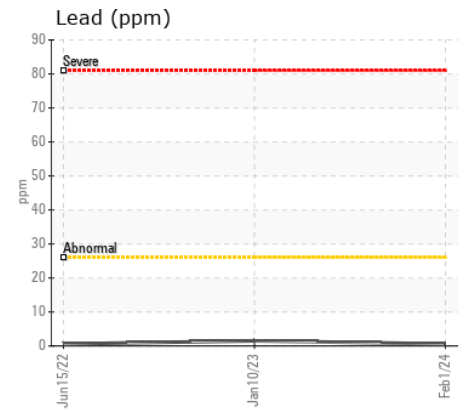
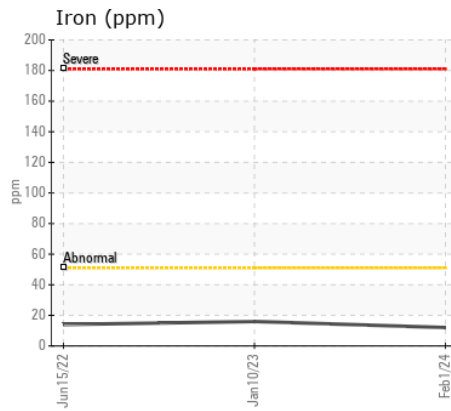
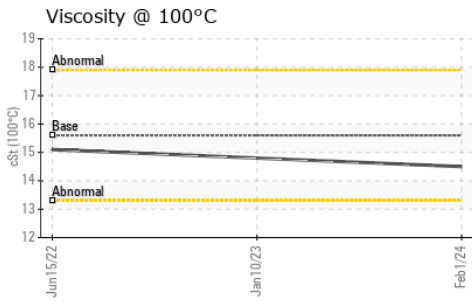
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>3</b>	3	3
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	0
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
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.8</b>	7.0	6.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.7</b>	19.8	20.7
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	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>1</b>	2	1
Boron	ppm	ASTM D5185(m)	0	<b>1</b>	1	2
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	60	<b>61</b>	61	60
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	<b>987</b>	974	1021
Calcium	ppm	ASTM D5185(m)	1070	<b>1068</b>	1102	1033
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1023</b>	1106	1083
Zinc	ppm	ASTM D5185(m)	1270	<b>1185</b>	1229	1224
Sulfur	ppm	ASTM D5185(m)	2060	<b>2704</b>	2720	2655
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.3</b>	14.5	14.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.6	<b>14.5</b>	14.8	15.1



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0741957 **Received** : 08 Mar 2024  
**Lab Number** : 02620740 **Tested** : 08 Mar 2024  
**Unique Number** : 5737850 **Diagnosed** : 08 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: Visual )

**E Barlow Farms Inc.**  
 210 Barlow Rd.  
 York, ON  
 CA N0A 1R0  
 Contact: Jeff Barlow  
 jeff@barlowfarms.ca  
 T: (905)520-7486  
 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.