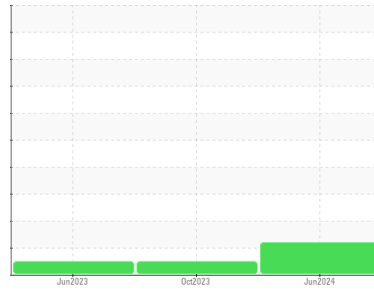


# OIL ANALYSIS REPORT

## Sample Rating Trend



**VISUAL METAL**



Machine Id  
**JOHN DEERE 7730 1RW7730RAAR029341**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON HP 15W40 (--- QTS)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### Wear

Moderate concentration of visible metal present. All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PCA0096453</b>	PCA0096450	PCA0081082
Sample Date	Client Info	<b>06 Jun 2024</b>	30 Oct 2023	23 Jun 2023
Machine Age	hrs	<b>9601</b>	9364	9122
Oil Age	hrs	<b>232</b>	246	261
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>ABNORMAL</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 D5185m >51	<b>7</b>	6	17
Chromium	ppm ASTM D5185m >11	<b>0</b>	0	<1
Nickel	ppm ASTM D5185m >5	<b>0</b>	0	1
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >31	<b>&lt;1</b>	<1	<1
Lead	ppm ASTM D5185m >26	<b>0</b>	0	<1
Copper	ppm ASTM D5185m >26	<b>0</b>	<1	1
Tin	ppm ASTM D5185m >4	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>3</b>	3	16
Barium	ppm ASTM D5185m	<b>0</b>	2	0
Molybdenum	ppm ASTM D5185m	<b>60</b>	55	61
Manganese	ppm ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m	<b>1066</b>	861	920
Calcium	ppm ASTM D5185m	<b>1245</b>	924	1087
Phosphorus	ppm ASTM D5185m	<b>1120</b>	1005	1007
Zinc	ppm ASTM D5185m	<b>1380</b>	1200	1186
Sulfur	ppm ASTM D5185m	<b>4079</b>	2880	3120

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >22	<b>2</b>	4	3
Sodium	ppm ASTM D5185m >31	<b>&lt;1</b>	<1	<1
Potassium	ppm ASTM D5185m >20	<b>0</b>	<1	8

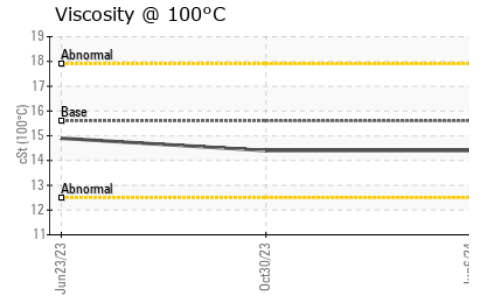
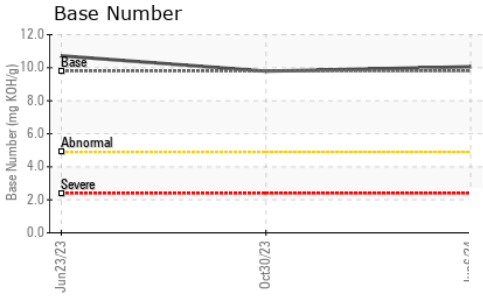
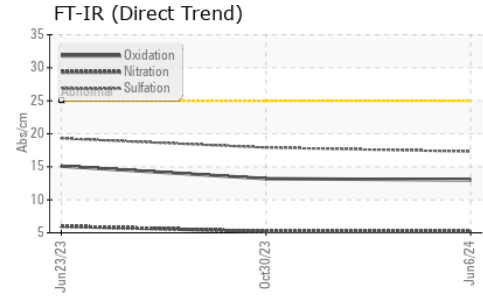
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.3</b>	0.4	0.6
Nitration	Abs/cm *ASTM D7624 >20	<b>5.2</b>	5.2	6.0
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>17.3</b>	17.9	19.3

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.0</b>	13.2	15.1
Base Number (BN)	mg KOH/g ASTM D2896 9.8	<b>10.06</b>	9.79	10.72

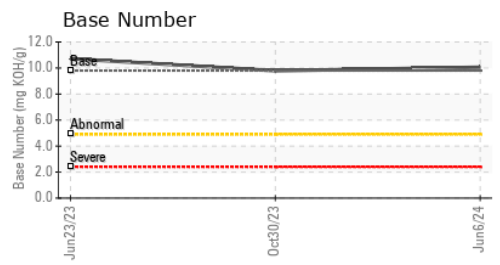
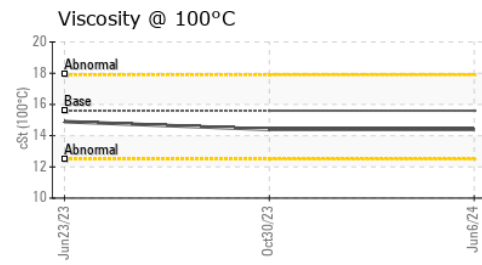
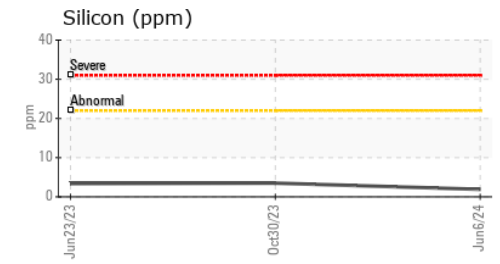
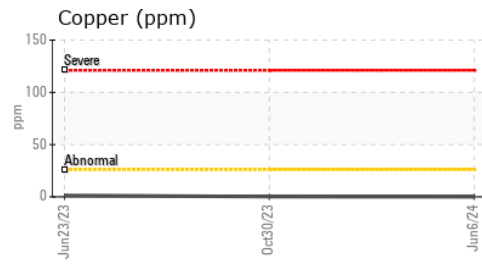
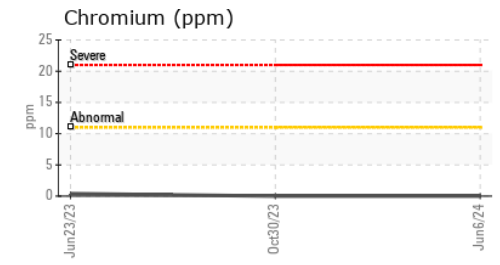
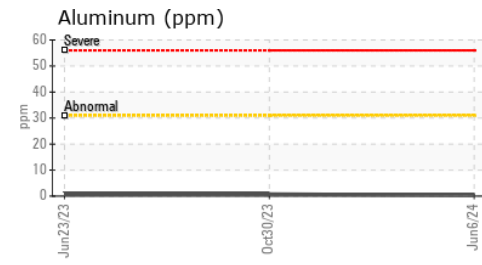
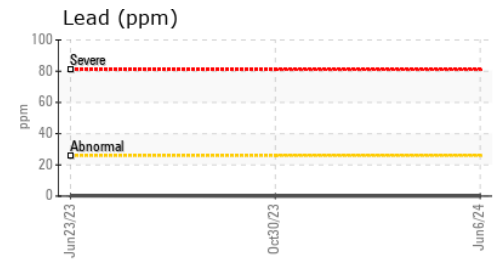
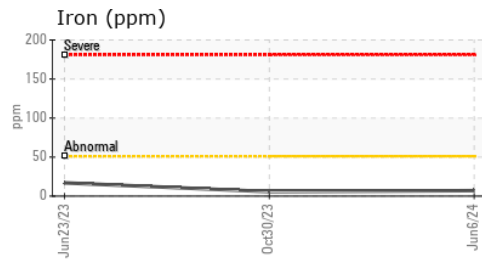
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.6	14.4	14.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0096453      **Received** : 18 Jun 2024  
**Lab Number** : 06213666      **Tested** : 20 Jun 2024  
**Unique Number** : 11086530      **Diagnosed** : 20 Jun 2024 - Sean Felton  
**Test Package** : MOB 2

**VEENSTRA FARMING**  
 15861 SEXTON RD  
 ESCALON, CA  
 US 95320  
 Contact: DEREK VEENSTRA  
 KEREKVEENSTRA@AOL.COM

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)