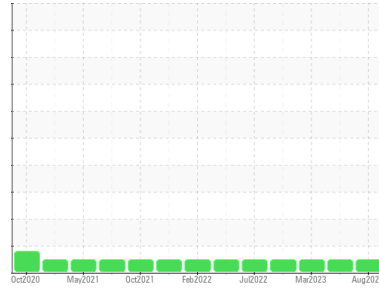


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**2026867**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (35 QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

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>PCA0103349</b>	PCA0099766	PCA0095205
Sample Date	Client Info	<b>06 Aug 2023</b>	30 May 2023	27 Mar 2023
Machine Age	mls Client Info	<b>336391</b>	311808	291746
Oil Age	mls Client Info	<b>44645</b>	20062	53116
Oil Changed	Client Info	<b>Changed</b>	Not Changd	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >6.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method >0.2	<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 >100	<b>35</b>	20	37
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >2	<b>3</b>	2	3
Titanium	ppm ASTM D5185m	<b>2</b>	3	13
Silver	ppm ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm ASTM D5185m >25	<b>3</b>	2	3
Lead	ppm ASTM D5185m >40	<b>4</b>	3	5
Copper	ppm ASTM D5185m >330	<b>59</b>	78	155
Tin	ppm ASTM D5185m >15	<b>3</b>	2	4
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>&lt;1</b>	<1	0

### ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>0</b>	<1	6
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>58</b>	57	52
Manganese	ppm ASTM D5185m 0	<b>1</b>	1	3
Magnesium	ppm ASTM D5185m 950	<b>884</b>	889	791
Calcium	ppm ASTM D5185m 1050	<b>1112</b>	1120	1217
Phosphorus	ppm ASTM D5185m 995	<b>853</b>	933	957
Zinc	ppm ASTM D5185m 1180	<b>1200</b>	1212	1227
Sulfur	ppm ASTM D5185m 2600	<b>2986</b>	3165	2865

### CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>6</b>	6	18
Sodium	ppm ASTM D5185m	<b>2</b>	3	4
Potassium	ppm ASTM D5185m >20	<b>3</b>	2	9

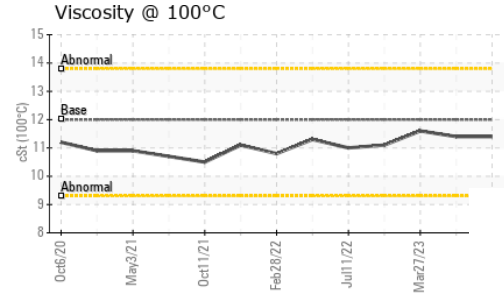
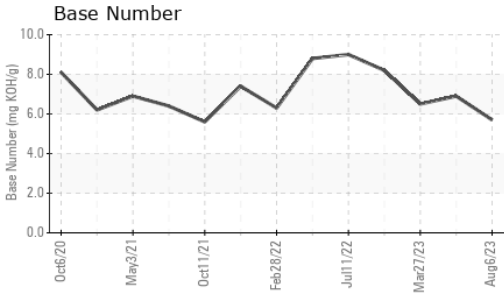
### INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.6</b>	0.4	0.4
Nitration	Abs/cm *ASTM D7624 >20	<b>13.0</b>	10.7	10.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>23.7</b>	21.1	21.4

### FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>20.2</b>	17.2	17.4
Base Number (BN)	mg KOH/g ASTM D2896	<b>5.7</b>	6.9	6.5

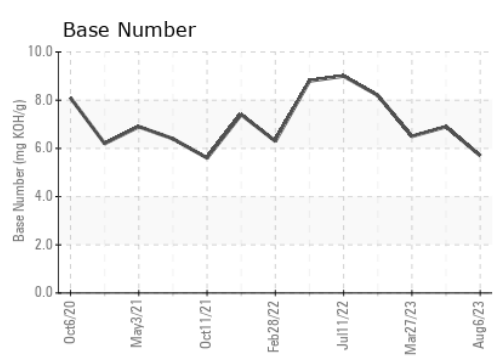
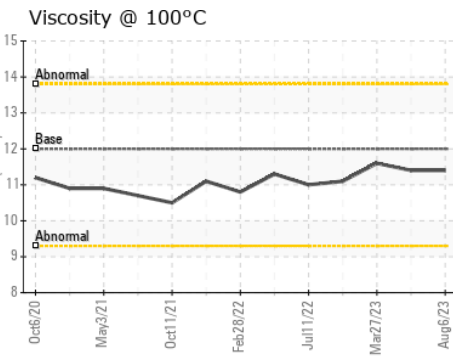
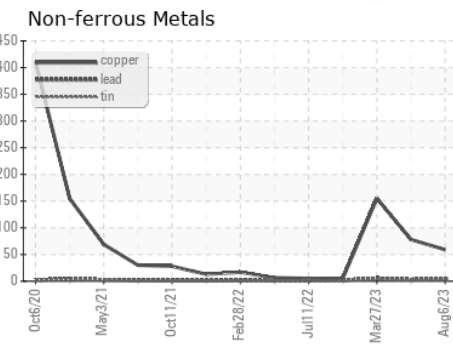
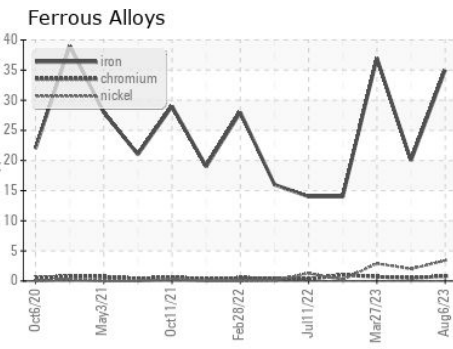
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.4</b>	11.4	11.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103349 **Received** : 11 Dec 2023  
**Lab Number** : **06031161** **Diagnosed** : 14 Dec 2023  
**Unique Number** : 10780952 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**PERDUE FARMS - GEORGETOWN**  
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 T:  
 F:

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)