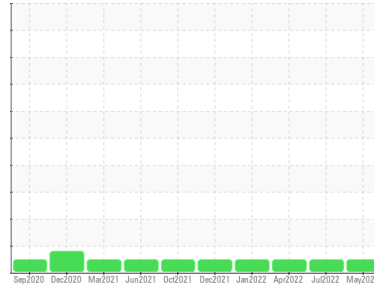


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**2026857**  
 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>PCA0099471</b>	PCA0078844	PCA0073772	
Sample Date	Client Info	<b>21 May 2023</b>	25 Jul 2022	23 Apr 2022	
Machine Age	mls	Client Info	<b>212675</b>	171615	153343
Oil Age	mls	Client Info	<b>21881</b>	20000	0
Oil Changed	Client Info	<b>Changed</b>	N/A	N/A	
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>24</b>	19	39
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	2	1
Titanium	ppm ASTM D5185m	<b>6</b>	5	29
Silver	ppm ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm ASTM D5185m >25	<b>2</b>	4	6
Lead	ppm ASTM D5185m >40	<b>&lt;1</b>	2	2
Copper	ppm ASTM D5185m >330	<b>12</b>	10	34
Tin	ppm ASTM D5185m >15	<b>0</b>	2	2
Antimony	ppm ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	<b>5</b>	5	8
Barium	ppm ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 50	<b>53</b>	52	39
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 950	<b>847</b>	851	715
Calcium	ppm ASTM D5185m 1050	<b>1154</b>	1210	1366
Phosphorus	ppm ASTM D5185m 995	<b>980</b>	947	921
Zinc	ppm ASTM D5185m 1180	<b>1214</b>	1165	1239
Sulfur	ppm ASTM D5185m 2600	<b>3024</b>	3684	2872

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>3</b>	4	5
Sodium	ppm ASTM D5185m	<b>1</b>	2	2
Potassium	ppm ASTM D5185m >20	<b>4</b>	4	12

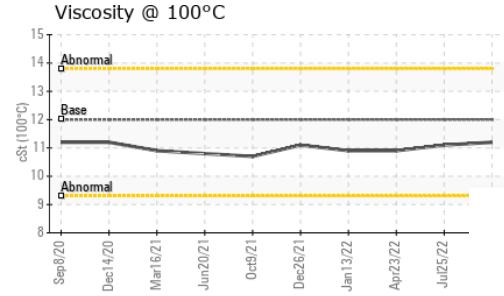
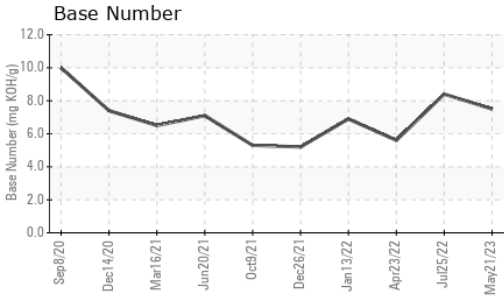
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	<b>0.4</b>	0.4	0.8
Nitration	Abs/cm *ASTM D7624 >20	<b>9.5</b>	9.3	11.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>19.4</b>	20.5	25.4

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>15.4</b>	15.8	19.6
Base Number (BN)	mg KOH/g ASTM D2896	<b>7.5</b>	8.4	5.6

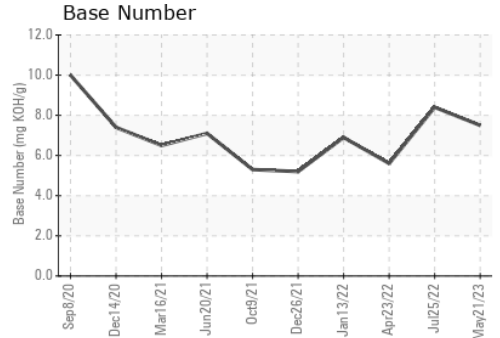
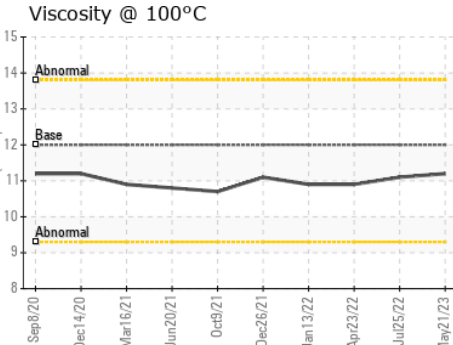
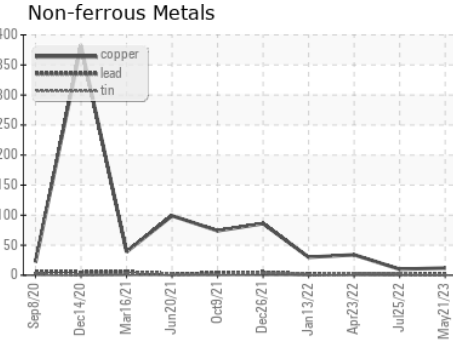
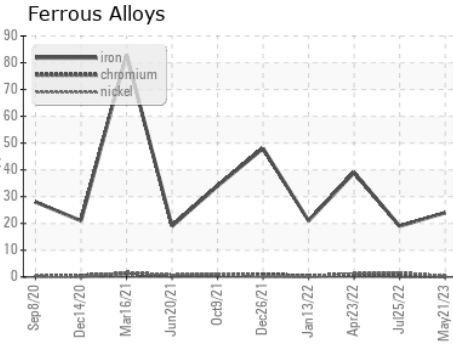
# OIL ANALYSIS REPORT



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	11.2	11.1

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099471  
**Lab Number** : 06030160  
**Unique Number** : 10779951  
**Test Package** : FLEET

**Received** : 11 Dec 2023  
**Diagnosed** : 12 Dec 2023  
**Diagnostician** : Wes Davis

**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)