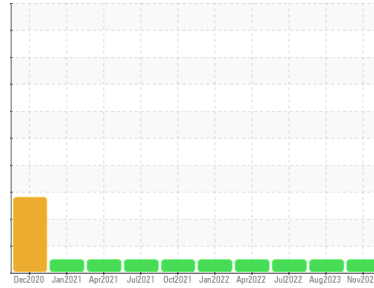


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**2026807**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>PCA0110946</b>	PCA0104362	PCA0077969
Sample Date	Client Info		<b>05 Nov 2023</b>	20 Aug 2023	21 Jul 2022
Machine Age	mls	Client Info	<b>0</b>	206319	155437
Oil Age	mls	Client Info	<b>20000</b>	206319	0
Oil Changed	Client Info		<b>Not Chngd</b>	Changed	Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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>19</b>	38	30
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>1</b>	4	2
Titanium	ppm	ASTM D5185m	<b>1</b>	5	6
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	5	5
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	2	2
Copper	ppm	ASTM D5185m >330	<b>7</b>	21	17
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	1	3
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>	0	4
Barium	ppm	ASTM D5185m 0	<b>12</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>58</b>	53	54
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>890</b>	817	848
Calcium	ppm	ASTM D5185m 1050	<b>1014</b>	1065	1157
Phosphorus	ppm	ASTM D5185m 995	<b>970</b>	814	821
Zinc	ppm	ASTM D5185m 1180	<b>1182</b>	1127	1121
Sulfur	ppm	ASTM D5185m 2600	<b>2913</b>	3227	3260

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	8	4
Sodium	ppm	ASTM D5185m	<b>0</b>	3	2
Potassium	ppm	ASTM D5185m >20	<b>5</b>	10	6

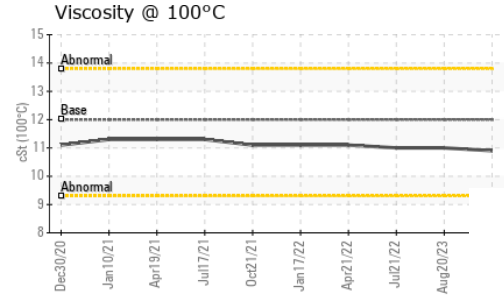
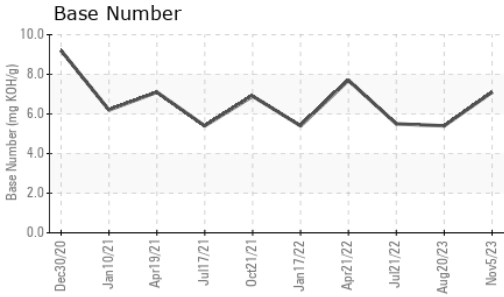
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	0.4	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.6</b>	10.8	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.2</b>	22.0	25.3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.1</b>	17.8	21.4
Base Number (BN)	mg KOH/g	ASTM D2896	<b>7.1</b>	5.4	5.5

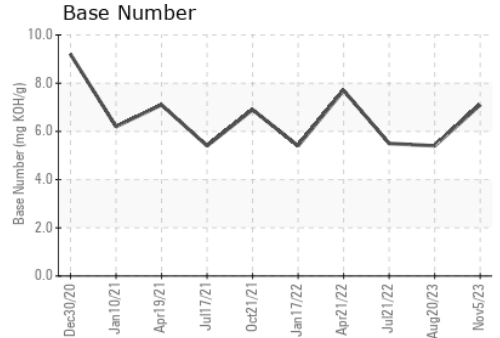
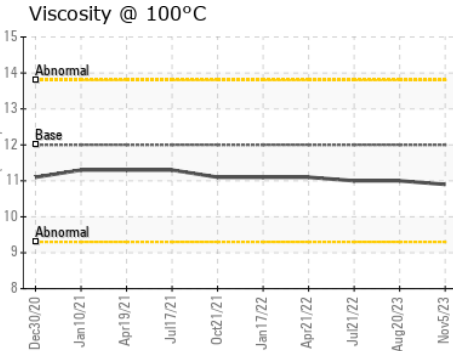
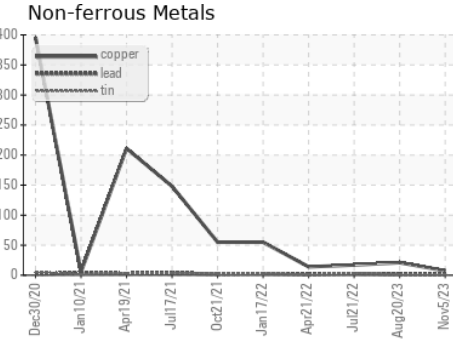
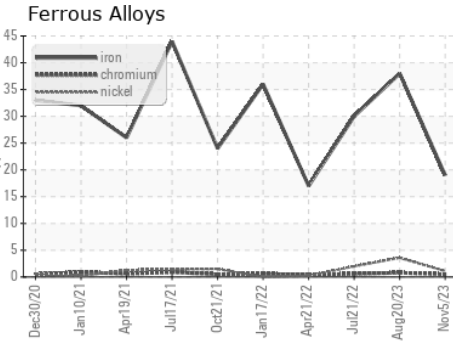
# OIL ANALYSIS REPORT



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>10.9</b>	11.0	11.0

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0110946 **Received** : 15 Dec 2023  
**Lab Number** : **06035844** **Diagnosed** : 18 Dec 2023  
**Unique Number** : 10791073 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - GEORGETOWN**  
 20621 SAVANAH RD  
 GEORGETOWN, DE  
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 Contact: ROBERT LOCKWOOD  
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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)