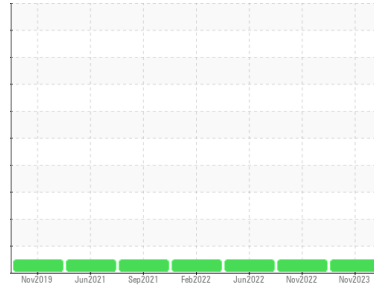


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**1926699**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (40 QTS)**

### DIAGNOSIS

#### Recommendation

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

#### Wear

Metal levels are typical for a new component breaking in.

#### 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>PCA0108165</b>	PCA0082599	PCA0074679
Sample Date	Client Info		<b>01 Nov 2023</b>	02 Nov 2022	11 Jun 2022
Machine Age	mls	Client Info	<b>66034</b>	66034	66034
Oil Age	mls	Client Info	<b>66034</b>	66034	66034
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
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
Glycol	WC Method		<b>NEG</b>	NEG	NEG

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>16</b>	34	35
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	4	4
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	3	2
Copper	ppm	ASTM D5185m >330	<b>3</b>	6	7
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	2	2
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
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 2	<b>12</b>	2	3
Barium	ppm	ASTM D5185m 0	<b>0</b>	8	0
Molybdenum	ppm	ASTM D5185m 50	<b>60</b>	58	60
Manganese	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>500</b>	875	869
Calcium	ppm	ASTM D5185m 1050	<b>1526</b>	1053	1180
Phosphorus	ppm	ASTM D5185m 995	<b>869</b>	897	863
Zinc	ppm	ASTM D5185m 1180	<b>1188</b>	1153	1148
Sulfur	ppm	ASTM D5185m 2600	<b>2844</b>	2649	3024

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	6	6
Sodium	ppm	ASTM D5185m	<b>1</b>	13	7
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0

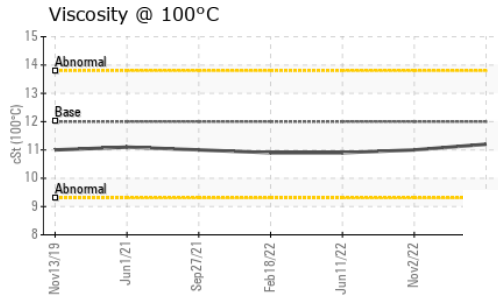
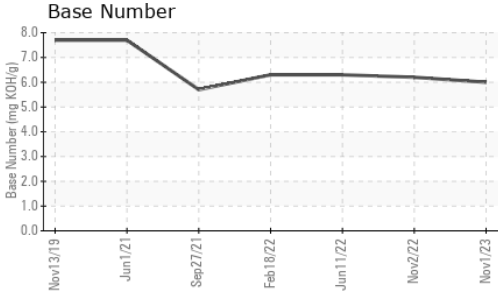
### INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.8	0.8
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.1</b>	11.2	10.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.4</b>	24.6	22.6

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.1</b>	20.4	18.2
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.0</b>	6.2	6.3

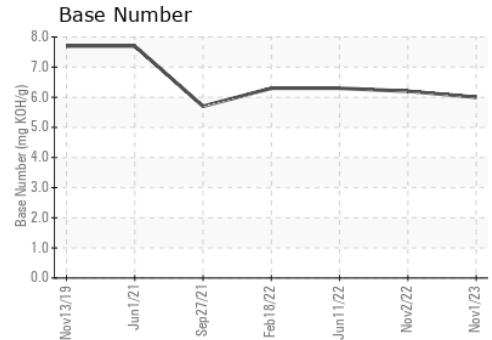
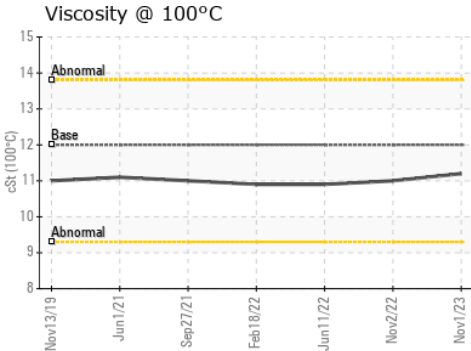
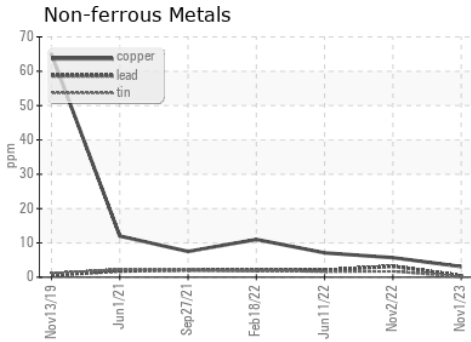
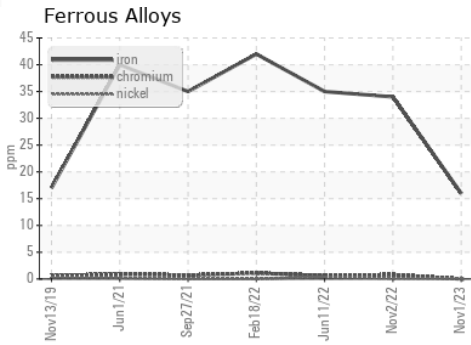
# OIL ANALYSIS REPORT



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	11.0

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0108165 **Received** : 08 Nov 2023  
**Lab Number** : 06001413 **Diagnosed** : 09 Nov 2023  
**Unique Number** : 10729773 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536  
 Contact: KEVIN HOOKS  
 kevin.hooks@perdue.com  
 T: (843)841-8069  
 F: (843)841-8070

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)