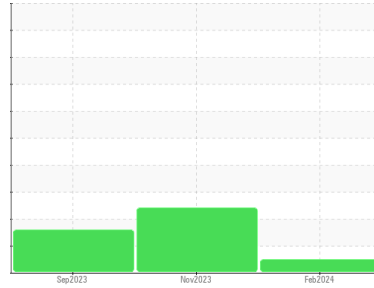


# OIL ANALYSIS REPORT

**Sample Rating Trend**

**NORMAL**

 Machine Id  
**2227118**

 Component  
**Diesel Engine**

 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- 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>PCA0118397</b>	PCA0102460	PCA0101160
Sample Date	Client Info		<b>11 Feb 2024</b>	28 Nov 2023	08 Sep 2023
Machine Age	mls	Client Info	<b>60500</b>	41206	19706
Oil Age	mls	Client Info	<b>20000</b>	40000	0
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	ABNORMAL	ABNORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	0.5
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>22</b>	62	43
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	<1
Nickel	ppm	ASTM D5185m >4	<b>5</b>	7	2
Titanium	ppm	ASTM D5185m	<b>16</b>	<1	<1
Silver	ppm	ASTM D5185m >3	<b>7</b>	11	16
Aluminum	ppm	ASTM D5185m >20	<b>8</b>	25	25
Lead	ppm	ASTM D5185m >40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >330	<b>274</b>	▲ 441	188
Tin	ppm	ASTM D5185m >15	<b>2</b>	6	5
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>16</b>	56	205
Barium	ppm	ASTM D5185m 0	<b>0</b>	11	0
Molybdenum	ppm	ASTM D5185m 50	<b>56</b>	110	117
Manganese	ppm	ASTM D5185m 0	<b>2</b>	4	4
Magnesium	ppm	ASTM D5185m 950	<b>780</b>	689	741
Calcium	ppm	ASTM D5185m 1050	<b>1257</b>	1379	1540
Phosphorus	ppm	ASTM D5185m 995	<b>946</b>	648	689
Zinc	ppm	ASTM D5185m 1180	<b>1151</b>	837	864
Sulfur	ppm	ASTM D5185m 2600	<b>2618</b>	2275	2878

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>12</b>	▲ 49	▲ 55
Sodium	ppm	ASTM D5185m	<b>3</b>	2	3
Potassium	ppm	ASTM D5185m >20	<b>22</b>	73	61

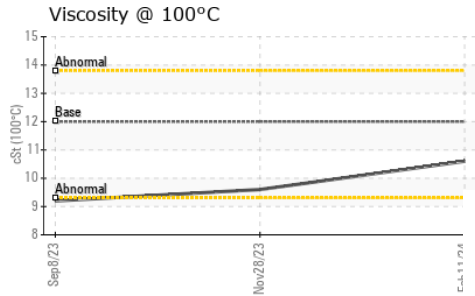
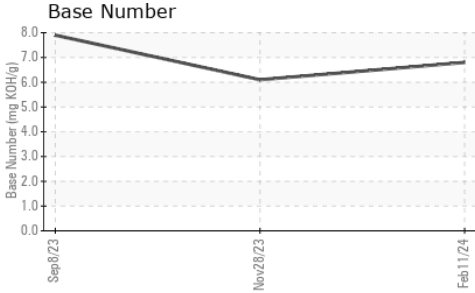
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.3</b>	0.4	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.9</b>	11.5	9.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.9</b>	24.1	23.7

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.7</b>	24.0	21.5
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.8</b>	6.1	7.9

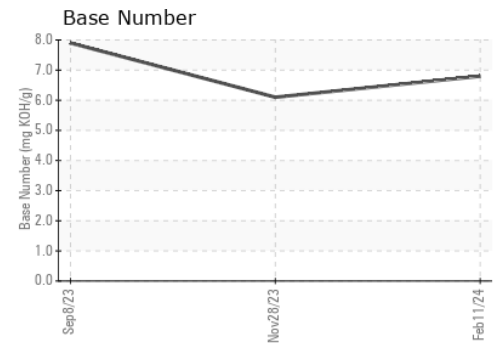
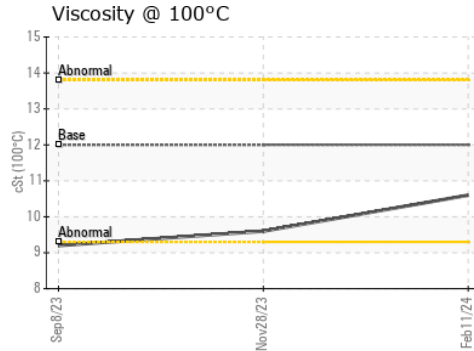
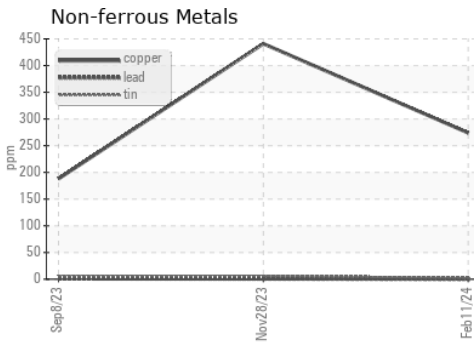
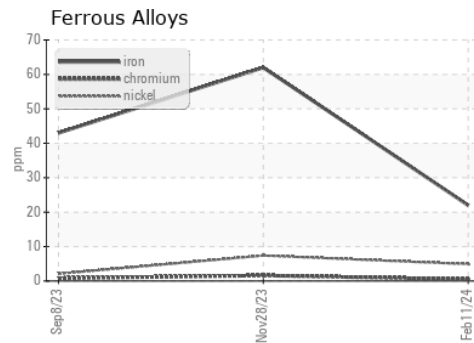
# OIL ANALYSIS REPORT



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>10.6</b>	9.6	9.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118397  
**Lab Number** : **06098150**  
**Unique Number** : 10896380  
**Test Package** : FLEET

**Received** : 23 Feb 2024  
**Tested** : 25 Feb 2024  
**Diagnosed** : 25 Feb 2024 - Wes Davis

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 SALISBURY, MD  
 US 21802  
 Contact: RICHARD O'NEAL  
 richard.oneal@perdue.com  
 T: (410)543-3628  
 F: (410)341-2164

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)