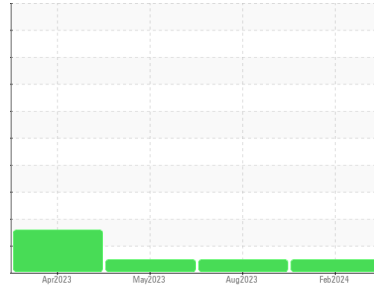


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**2126990**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- 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 acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0118401</b>	PCA0088736	PCA0099505
Sample Date	Client Info		<b>16 Feb 2024</b>	11 Aug 2023	27 May 2023
Machine Age	mls	Client Info	<b>124121</b>	57582	26358
Oil Age	mls	Client Info	<b>20000</b>	20000	20000
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
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>15</b>	34	19
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >4	<b>2</b>	0	0
Titanium	ppm	ASTM D5185m	<b>15</b>	1	2
Silver	ppm	ASTM D5185m >3	<b>&lt;1</b>	0	1
Aluminum	ppm	ASTM D5185m >20	<b>3</b>	17	11
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	2	<1
Copper	ppm	ASTM D5185m >330	<b>22</b>	180	295
Tin	ppm	ASTM D5185m >15	<b>2</b>	3	2
Vanadium	ppm	ASTM D5185m	<b>&lt;1</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>9</b>	2	18
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>46</b>	66	67
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	2	1
Magnesium	ppm	ASTM D5185m 950	<b>773</b>	856	961
Calcium	ppm	ASTM D5185m 1050	<b>1161</b>	1164	1192
Phosphorus	ppm	ASTM D5185m 995	<b>965</b>	852	1017
Zinc	ppm	ASTM D5185m 1180	<b>1142</b>	1118	1260
Sulfur	ppm	ASTM D5185m 2600	<b>2861</b>	2397	3504

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	10	12
Sodium	ppm	ASTM D5185m	<b>3</b>	<1	2
Potassium	ppm	ASTM D5185m >20	<b>7</b>	54	34

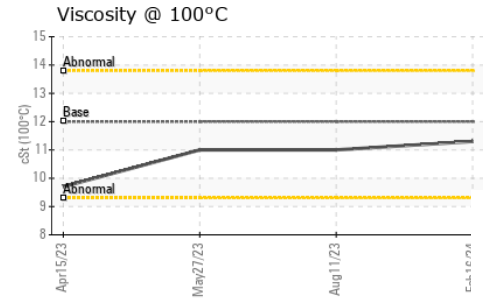
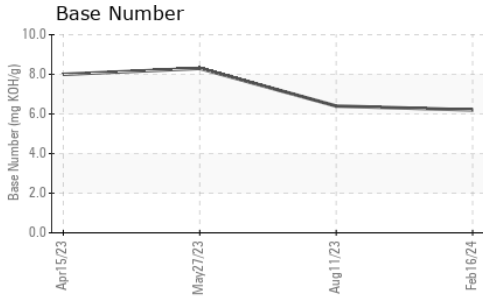
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.5</b>	0.6	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.7</b>	9.7	8.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.3</b>	21.3	19.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.3</b>	16.9	14.9
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.2</b>	6.4	8.3

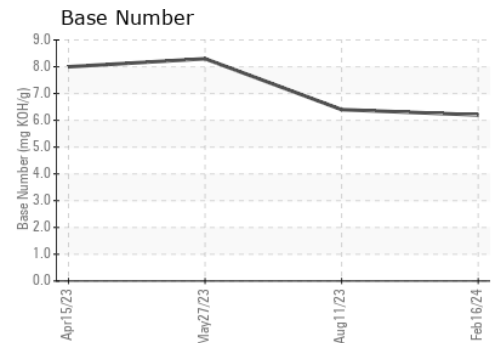
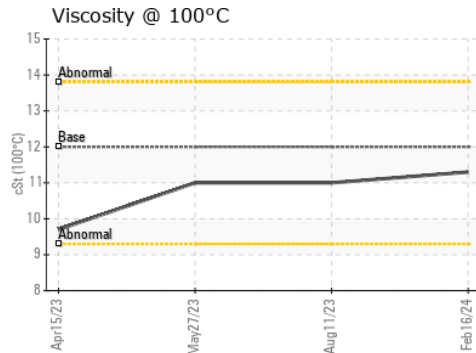
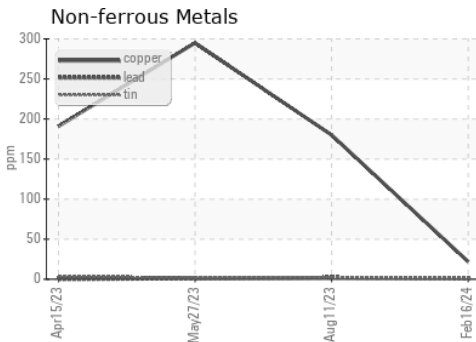
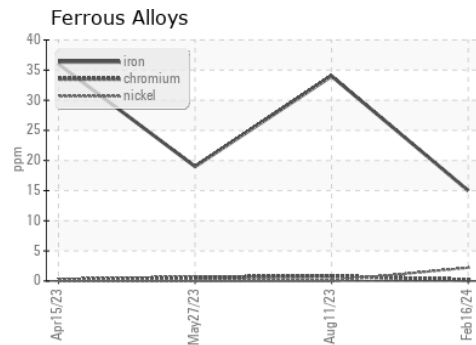
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.3</b>	11.0

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0118401      **Received** : 23 Feb 2024  
**Lab Number** : **06098157**      **Tested** : 25 Feb 2024  
**Unique Number** : 10896387      **Diagnosed** : 26 Feb 2024 - Don Baldrige  
**Test Package** : FLEET

**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)