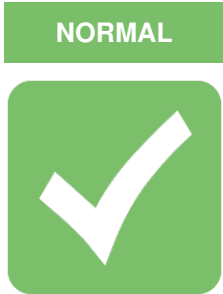
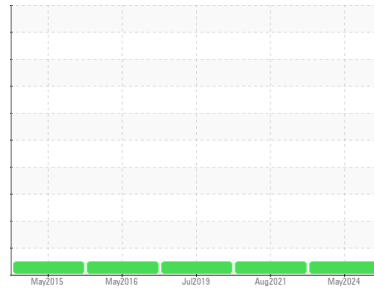


# OIL ANALYSIS REPORT

Area  
**FLEET**  
 Machine Id  
**OTTAWA 6634 (S/N 301323)**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
 Resample at the next service interval to monitor.

**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>PCA0124265</b>	PCA0055002	PCA0004684
Sample Date	Client Info		<b>20 May 2024</b>	09 Aug 2021	14 Jul 2019
Machine Age	mls	Client Info	<b>11180</b>	6	11149
Oil Age	mls	Client Info	<b>0</b>	6	0
Oil Changed	Client Info		<b>Changed</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>8</b>	42	12
Chromium	ppm	ASTM D5185m >20	<b>1</b>	5	2
Nickel	ppm	ASTM D5185m >2	<b>0</b>	3	0
Titanium	ppm	ASTM D5185m >2	<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	3	2
Lead	ppm	ASTM D5185m >40	<b>0</b>	2	2
Copper	ppm	ASTM D5185m >330	<b>1</b>	9	4
Tin	ppm	ASTM D5185m >15	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
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>0</b>	10	8
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>59</b>	63	58
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>958</b>	954	1020
Calcium	ppm	ASTM D5185m 1050	<b>1213</b>	1176	1178
Phosphorus	ppm	ASTM D5185m 995	<b>1125</b>	1054	993
Zinc	ppm	ASTM D5185m 1180	<b>1293</b>	1301	1224
Sulfur	ppm	ASTM D5185m 2600	<b>3738</b>	2594	2588

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>&lt;1</b>	2	4
Sodium	ppm	ASTM D5185m	<b>3</b>	1	4
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	3

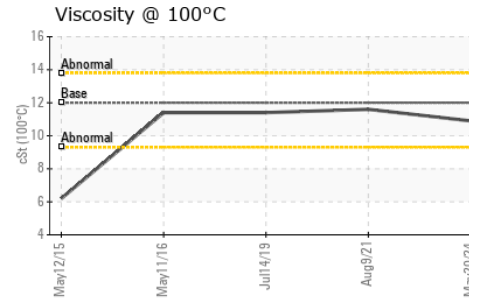
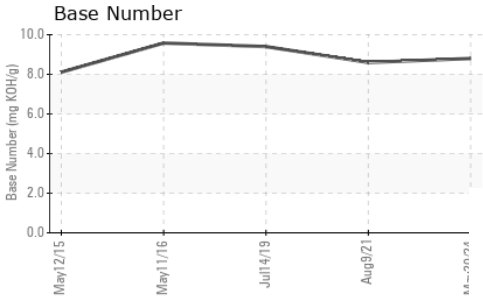
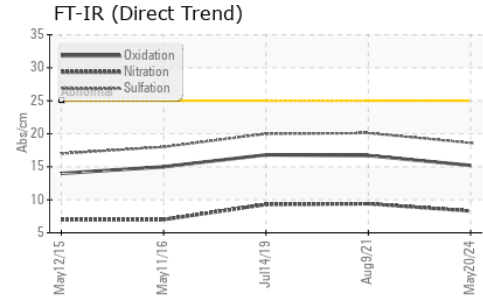
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.3</b>	9.4	9.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>18.6</b>	20.1	20

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.2</b>	16.7	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	<b>8.8</b>	8.6	9.4

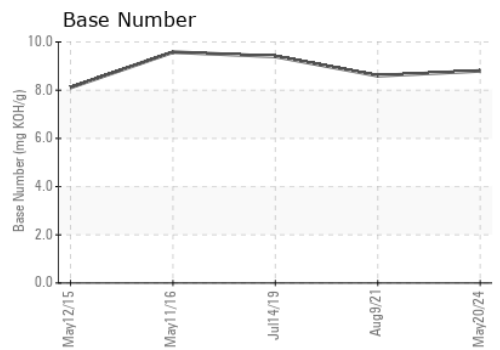
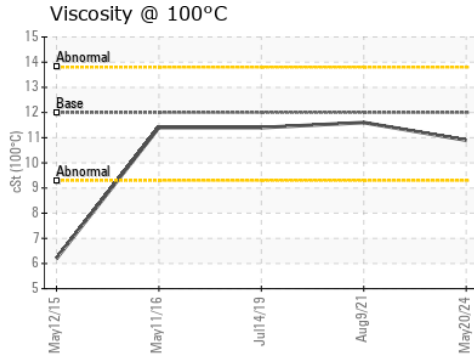
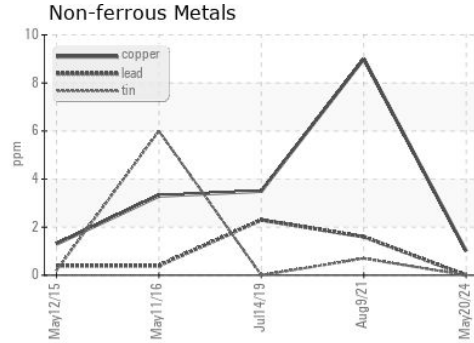
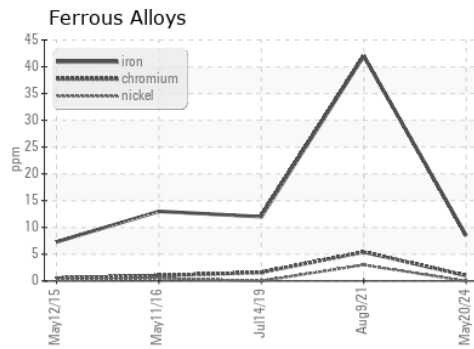
# OIL ANALYSIS REPORT



PARAMETER	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	10.9	11.6

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124265      **Received** : 03 Jun 2024  
**Lab Number** : **06197273**      **Tested** : 03 Jun 2024  
**Unique Number** : 11059396      **Diagnosed** : 03 Jun 2024 - Wes Davis  
**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)