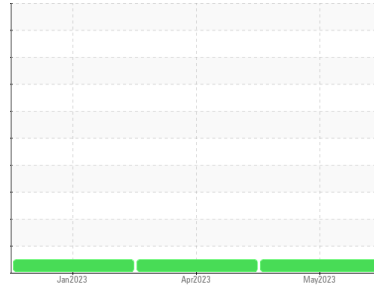


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**(PKD6978) Walgreens - Yard Horse**  
Machine Id  
**[Walgreens - Yard Horse] 136A89102**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (11 GAL)**

## 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 suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history 1	history 2
Sample Number	Client Info	<b>PCA0096045</b>	PCA0092811	PCA0090891
Sample Date	Client Info	<b>26 May 2023</b>	19 Apr 2023	19 Jan 2023
Machine Age	hrs Client Info	<b>14196</b>	337514	13000
Oil Age	hrs Client Info	<b>650</b>	25000	720
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history 1	history 2
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	history 1	history 2
Iron	ppm ASTM D5185m >100	<b>23</b>	70	71
Chromium	ppm ASTM D5185m >20	<b>&lt;1</b>	1	1
Nickel	ppm ASTM D5185m >4	<b>0</b>	0	<1
Titanium	ppm ASTM D5185m	<b>0</b>	0	0
Silver	ppm ASTM D5185m >3	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >20	<b>0</b>	3	4
Lead	ppm ASTM D5185m >40	<b>0</b>	0	0
Copper	ppm ASTM D5185m >330	<b>&lt;1</b>	1	<1
Tin	ppm ASTM D5185m >15	<b>&lt;1</b>	<1	0
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history 1	history 2
Boron	ppm ASTM D5185m 2	<b>3</b>	3	4
Barium	ppm ASTM D5185m 0	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185m 50	<b>61</b>	73	61
Manganese	ppm ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m 950	<b>871</b>	1057	839
Calcium	ppm ASTM D5185m 1050	<b>1042</b>	1244	1018
Phosphorus	ppm ASTM D5185m 995	<b>990</b>	1126	895
Zinc	ppm ASTM D5185m 1180	<b>1197</b>	1464	1121
Sulfur	ppm ASTM D5185m 2600	<b>3213</b>	3304	2501

## CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon	ppm ASTM D5185m >25	<b>5</b>	12	13
Sodium	ppm ASTM D5185m	<b>&lt;1</b>	2	<1
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	2	1

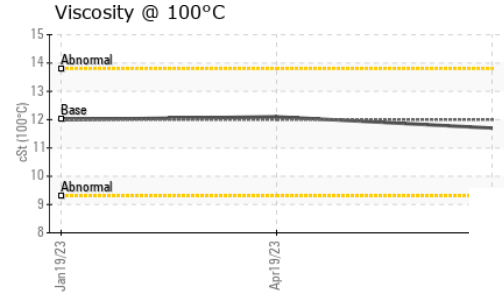
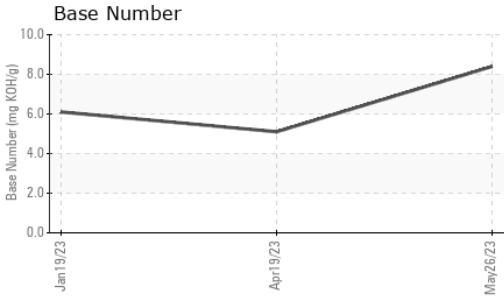
## INFRA-RED

method	limit/base	current	history 1	history 2
Soot %	% *ASTM D7844 >3	<b>1.3</b>	2.2	2.4
Nitration	Abs/cm *ASTM D7624 >20	<b>9.4</b>	13.6	15.1
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>21.0</b>	25.1	27.2

## FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>17.3</b>	22.4	23.8
Base Number (BN)	mg KOH/g ASTM D2896	<b>8.4</b>	5.1	6.1

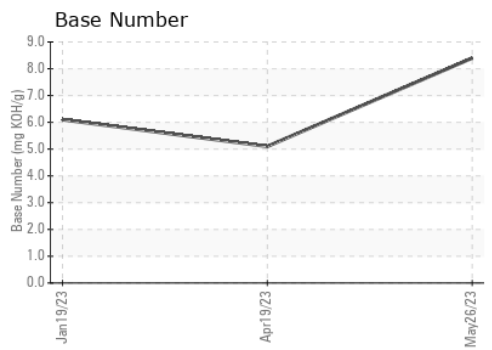
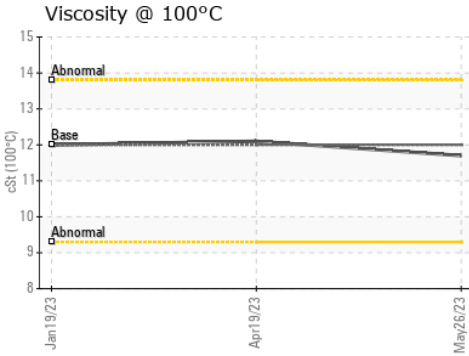
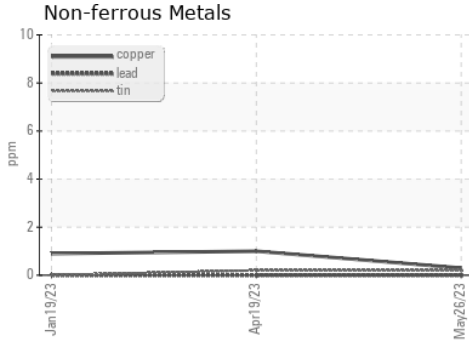
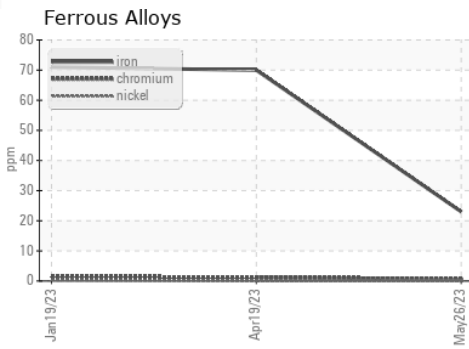
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.7</b>	12.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0096045 **Received** : 30 Jun 2023  
**Lab Number** : **05888320** **Diagnosed** : 04 Jul 2023  
**Unique Number** : 10538803 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**Transervice - Shop 1370 - Berkeley-Perrysburg**  
 28727 Oregon Road  
 Perrysburg, OH  
 US 43551  
 Contact: Curtis Hart  
 chart@transervice.com  
 T: (419)666-3277  
 F: (419)666-3279

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)