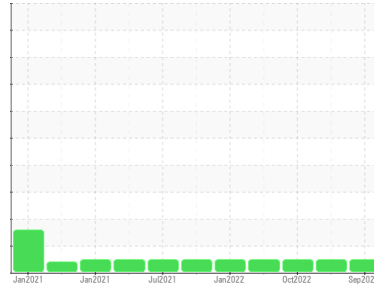


# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**DT758**  
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 suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0107471</b>	PCA0095649	PCA0081275
Sample Date	Client Info		<b>26 Sep 2023</b>	14 Apr 2023	13 Oct 2022
Machine Age	mls Client Info		<b>213716</b>	187854	162987
Oil Age	mls Client Info		<b>187854</b>	24867	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	>3.0	<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	>120	<b>16</b>	16	14
Chromium	ppm ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm ASTM D5185m	>2	<b>0</b>	0	0
Silver	ppm ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>20	<b>4</b>	4	6
Lead	ppm ASTM D5185m	>40	<b>1</b>	0	<1
Copper	ppm ASTM D5185m	>330	<b>4</b>	4	4
Tin	ppm ASTM D5185m	>15	<b>&lt;1</b>	0	<1
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>	5	1
Barium	ppm ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	50	<b>63</b>	64	61
Manganese	ppm ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m	950	<b>892</b>	958	910
Calcium	ppm ASTM D5185m	1050	<b>1062</b>	1159	1059
Phosphorus	ppm ASTM D5185m	995	<b>948</b>	974	926
Zinc	ppm ASTM D5185m	1180	<b>1220</b>	1246	1206
Sulfur	ppm ASTM D5185m	2600	<b>2636</b>	3402	2962

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>7</b>	6	6
Sodium	ppm ASTM D5185m		<b>1</b>	2	1
Potassium	ppm ASTM D5185m	>20	<b>4</b>	2	6

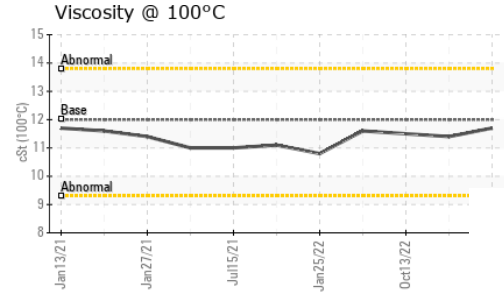
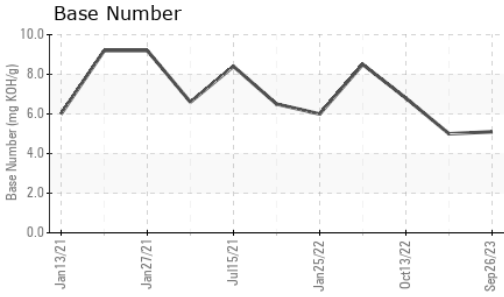
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>4	<b>0.7</b>	0.6	0.7
Nitration	Abs/cm *ASTM D7624	>20	<b>10.1</b>	9.1	10.7
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>22.3</b>	19.6	22.9

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>17.2</b>	15.2	18
Base Number (BN)	mg KOH/g ASTM D2896		<b>5.1</b>	5.0	6.8

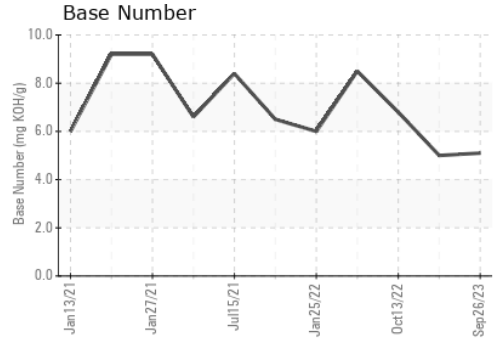
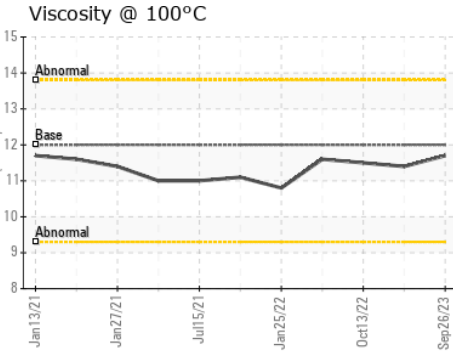
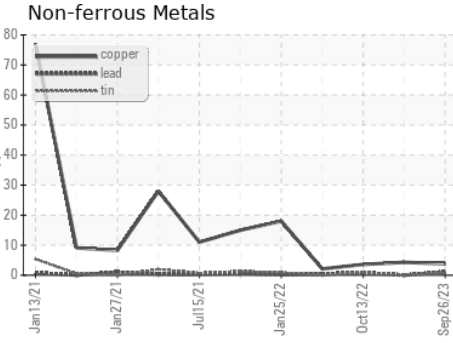
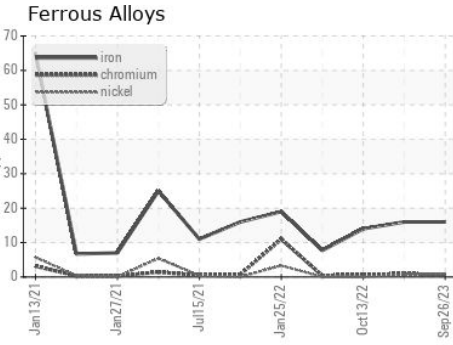
# OIL ANALYSIS REPORT



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>11.7</b>	11.4	11.5

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0107471  
**Lab Number** : **05966013**  
**Unique Number** : 10672564  
**Test Package** : FLEET

**NW WHITE & CO - COLUMBIA DIVISION**  
 100 INDEPENDENCE BLVD  
 COLUMBIA, SC  
 US 29210  
 Contact: GEORGE EDWARDS  
 gedwards@nwwhite.com

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)