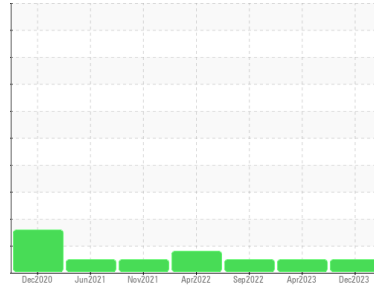


# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**DT739**  
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>PCA0103306</b>	PCA0091172	PCA0074862
Sample Date	Client Info		<b>07 Dec 2023</b>	12 Apr 2023	07 Sep 2022
Machine Age	mls Client Info		<b>186494</b>	157747	131976
Oil Age	mls Client Info		<b>28747</b>	25771	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
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	>120	<b>26</b>	20	16
Chromium	ppm ASTM D5185m	>20	<b>1</b>	1	<1
Nickel	ppm ASTM D5185m	>5	<b>5</b>	4	1
Titanium	ppm ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185m	>20	<b>4</b>	3	5
Lead	ppm ASTM D5185m	>40	<b>3</b>	1	0
Copper	ppm ASTM D5185m	>330	<b>5</b>	5	4
Tin	ppm ASTM D5185m	>15	<b>1</b>	<1	0
Vanadium	ppm ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm ASTM D5185m		<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2	<b>&lt;1</b>	<1	0
Barium	ppm ASTM D5185m	0	<b>12</b>	2	0
Molybdenum	ppm ASTM D5185m	50	<b>66</b>	66	63
Manganese	ppm ASTM D5185m	0	<b>1</b>	<1	<1
Magnesium	ppm ASTM D5185m	950	<b>937</b>	849	886
Calcium	ppm ASTM D5185m	1050	<b>1188</b>	1062	1084
Phosphorus	ppm ASTM D5185m	995	<b>1002</b>	889	943
Zinc	ppm ASTM D5185m	1180	<b>1275</b>	1170	1199
Sulfur	ppm ASTM D5185m	2600	<b>2565</b>	2381	2480

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25	<b>7</b>	6	5
Sodium	ppm ASTM D5185m		<b>4</b>	2	4
Potassium	ppm ASTM D5185m	>20	<b>8</b>	6	2

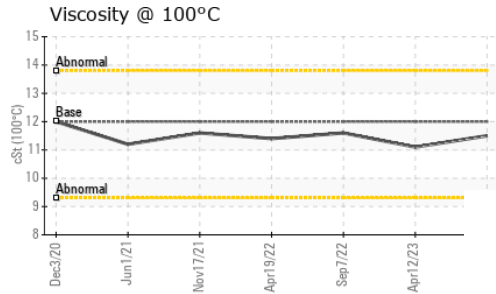
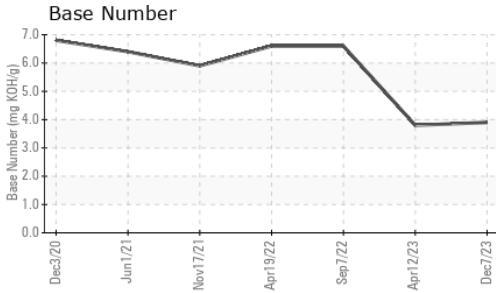
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>4	<b>0.8</b>	0.7	0.8
Nitration	Abs/cm *ASTM D7624	>20	<b>11.0</b>	9.7	10.5
Sulfation	Abs/.1mm *ASTM D7415	>30	<b>24.2</b>	20.9	24.0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	<b>20.2</b>	17.3	18.7
Base Number (BN)	mg KOH/g ASTM D2896		<b>3.9</b>	3.8	6.6

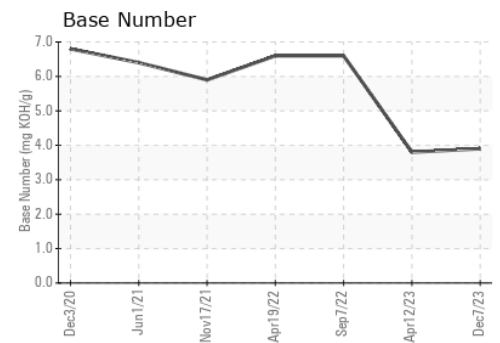
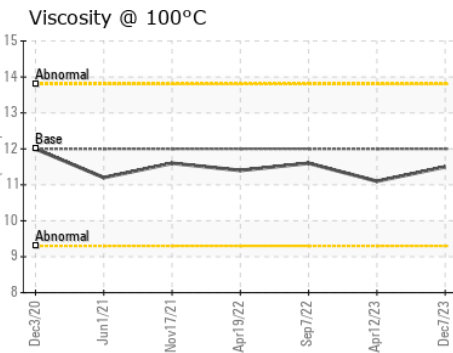
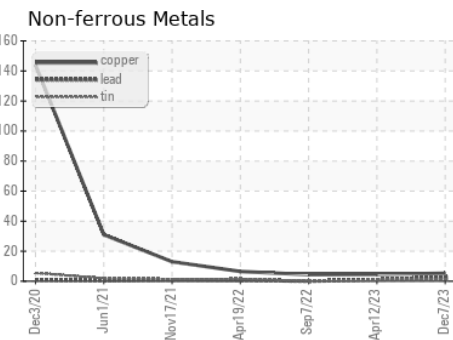
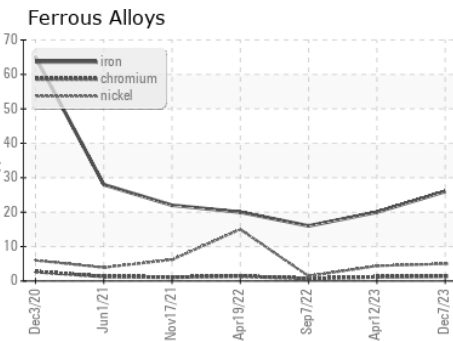
# OIL ANALYSIS REPORT



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>11.5</b>	11.1	11.6

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103306 **Received** : 15 Dec 2023  
**Lab Number** : **06036542** **Diagnosed** : 18 Dec 2023  
**Unique Number** : 10791771 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**NW WHITE & CO - ANDERSON DIVISION**  
 2605 RIVER RD  
 PIEDMONT, SC  
 US 29673  
 Contact: James Threatt  
 jthreatt@nwwhite.com  
 T: (864)918-4646  
 F:

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)