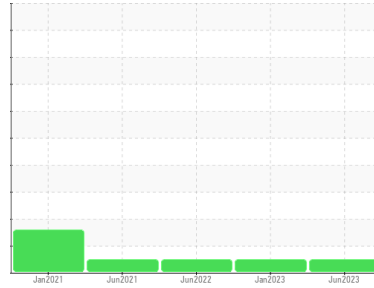


# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**DT766**  
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	history 1	history 2
Sample Number	Client Info		<b>PCA0096939</b>	PCA0091216	PCA0074856
Sample Date	Client Info		<b>30 Jun 2023</b>	18 Jan 2023	29 Jun 2022
Machine Age	mls	Client Info	<b>154392</b>	129664	103235
Oil Age	mls	Client Info	<b>24728</b>	26429	49956
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	>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	history 1	history 2
Iron	ppm	ASTM D5185m >120	<b>19</b>	18	23
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>4</b>	6	6
Lead	ppm	ASTM D5185m >40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m >330	<b>5</b>	8	12
Tin	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m 2	<b>2</b>	2	6
Barium	ppm	ASTM D5185m 0	<b>12</b>	0	0
Molybdenum	ppm	ASTM D5185m 50	<b>63</b>	61	67
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m 950	<b>877</b>	872	899
Calcium	ppm	ASTM D5185m 1050	<b>1183</b>	1025	1100
Phosphorus	ppm	ASTM D5185m 995	<b>925</b>	847	939
Zinc	ppm	ASTM D5185m 1180	<b>1252</b>	1097	1208
Sulfur	ppm	ASTM D5185m 2600	<b>3070</b>	2715	3015

## CONTAMINANTS

	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	7	6
Sodium	ppm	ASTM D5185m	<b>5</b>	6	5
Potassium	ppm	ASTM D5185m >20	<b>10</b>	7	11

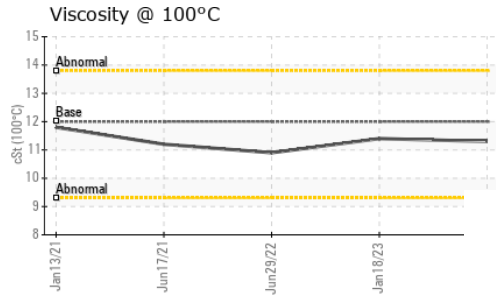
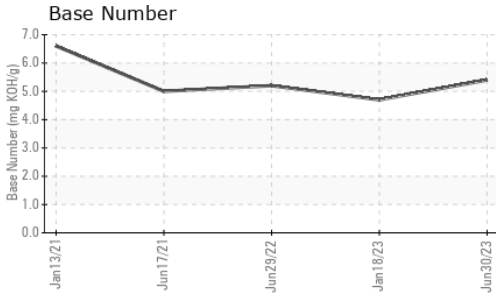
## INFRA-RED

	method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844 >4	<b>0.7</b>	0.7	0.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.5</b>	10.6	10.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.5</b>	22.3	22.6

## FLUID DEGRADATION

	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.4</b>	17.4	17.6
Base Number (BN)	mg KOH/g	ASTM D2896	<b>5.4</b>	4.7	5.2

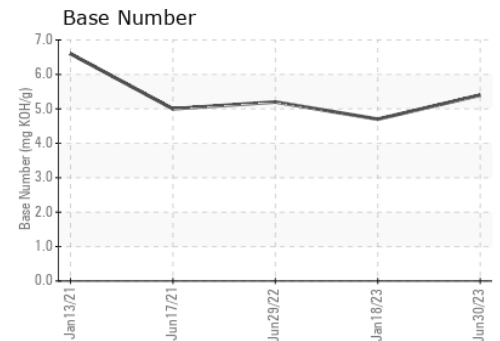
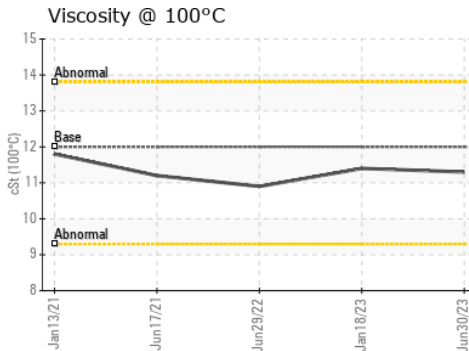
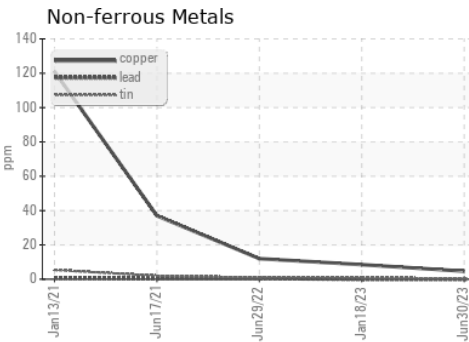
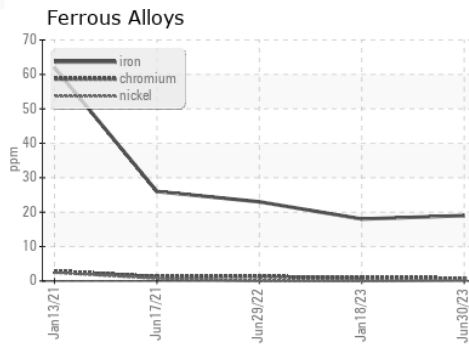
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2	
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.3</b>	11.4	10.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0096939 **Received** : 03 Jul 2023  
**Lab Number** : **05888611** **Diagnosed** : 05 Jul 2023  
**Unique Number** : 10539094 **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)