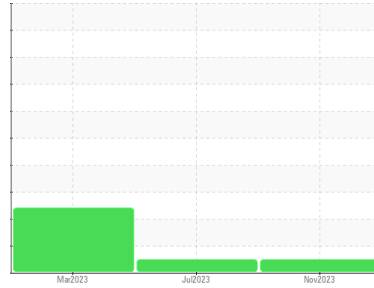


# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Machine Id  
**DT837**  
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>PCA0101852</b>	PCA0095268	PCA0087491
Sample Date	Client Info		<b>22 Nov 2023</b>	05 Jul 2023	01 Mar 2023
Machine Age	mls	Client Info	<b>0</b>	0	0
Oil Age	mls	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## 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>18</b>	21	37
Chromium	ppm	ASTM D5185m >20	<b>1</b>	1	3
Nickel	ppm	ASTM D5185m >5	<b>2</b>	2	2
Titanium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m >20	<b>7</b>	17	▲ 37
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	0	3
Copper	ppm	ASTM D5185m >330	<b>48</b>	121	213
Tin	ppm	ASTM D5185m >15	<b>2</b>	2	5
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>3</b>	6	114
Barium	ppm	ASTM D5185m 0	<b>11</b>	<1	0
Molybdenum	ppm	ASTM D5185m 50	<b>63</b>	72	107
Manganese	ppm	ASTM D5185m 0	<b>1</b>	2	6
Magnesium	ppm	ASTM D5185m 950	<b>818</b>	951	707
Calcium	ppm	ASTM D5185m 1050	<b>1046</b>	1227	1428
Phosphorus	ppm	ASTM D5185m 995	<b>794</b>	936	651
Zinc	ppm	ASTM D5185m 1180	<b>1123</b>	1249	826
Sulfur	ppm	ASTM D5185m 2600	<b>2647</b>	2999	2267

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>7</b>	9	▲ 57
Sodium	ppm	ASTM D5185m	<b>8</b>	6	5
Potassium	ppm	ASTM D5185m >20	<b>20</b>	38	92

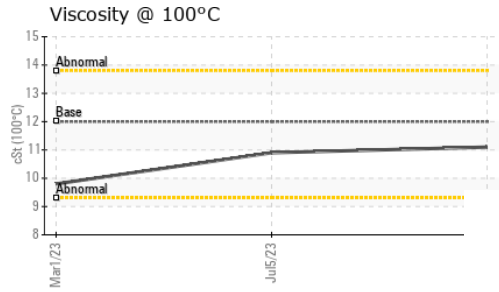
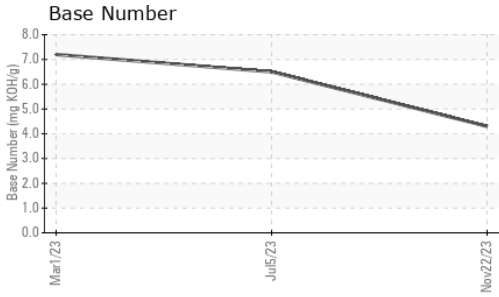
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>0.5</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624 >20	<b>9.4</b>	9.3	10.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>20.8</b>	20.4	23.4

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>16.3</b>	16.1	21.9
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.3</b>	6.5	7.2

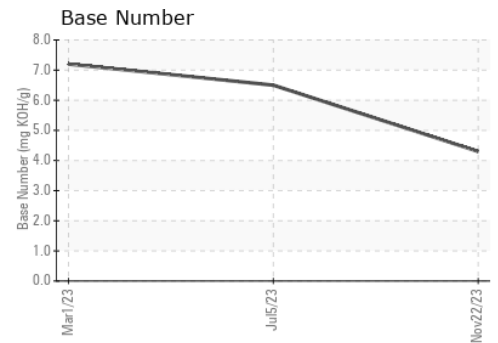
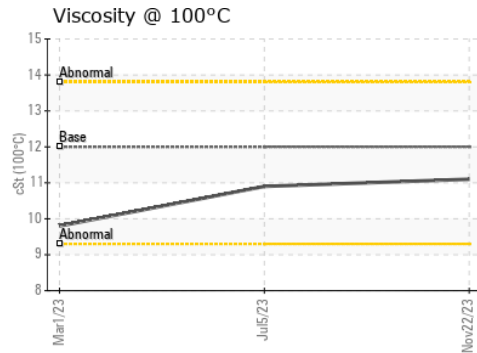
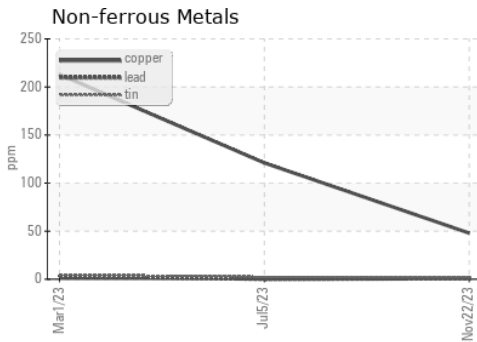
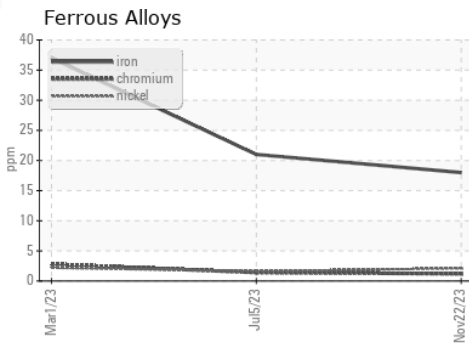
# OIL ANALYSIS REPORT



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	11.1	10.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0101852 **Received** : 12 Dec 2023  
**Lab Number** : 06032701 **Diagnosed** : 13 Dec 2023  
**Unique Number** : 10782492 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

**NW WHITE & CO - BEAUFORT DIVISION**  
 1491 YENMASSEE HIGHWAY  
 VARNVILLE, SC  
 US 29944  
 Contact: VINCENT BULLOCK  
 bullockvince514@gmail.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)

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F: