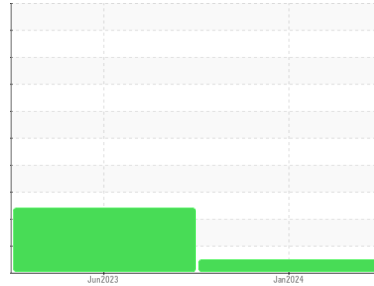


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**DT841**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (36 QTS)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

Metal levels are typical for a new component breaking in.

### 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>PCA0113227</b>	PCA0097001	---
Sample Date	Client Info		<b>11 Jan 2024</b>	12 Jun 2023	---
Machine Age	mls	Client Info	<b>52305</b>	26834	---
Oil Age	mls	Client Info	<b>25471</b>	26834	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >120	<b>24</b>	58	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	2	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	3	---
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >20	<b>8</b>	▲ 22	---
Lead	ppm	ASTM D5185m >40	<b>&lt;1</b>	2	---
Copper	ppm	ASTM D5185m >330	<b>41</b>	92	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	7	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	<b>5</b>	42	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 50	<b>60</b>	113	---
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	6	---
Magnesium	ppm	ASTM D5185m 950	<b>839</b>	736	---
Calcium	ppm	ASTM D5185m 1050	<b>1038</b>	1512	---
Phosphorus	ppm	ASTM D5185m 995	<b>861</b>	684	---
Zinc	ppm	ASTM D5185m 1180	<b>1106</b>	865	---
Sulfur	ppm	ASTM D5185m 2600	<b>2371</b>	2543	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>11</b>	▲ 150	---
Sodium	ppm	ASTM D5185m	<b>5</b>	5	---
Potassium	ppm	ASTM D5185m >20	<b>20</b>	59	---

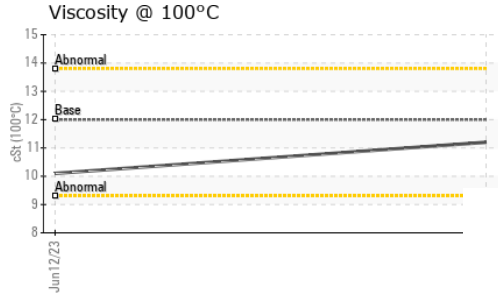
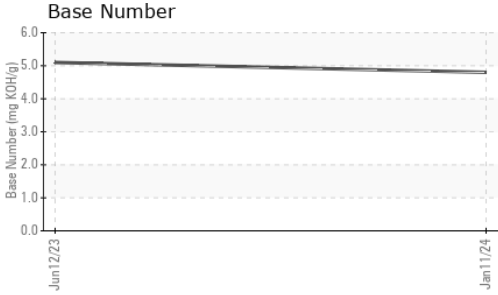
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>0.7</b>	0.6	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.0</b>	12.8	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.6</b>	25.1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>18.9</b>	25.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>4.8</b>	5.1	---

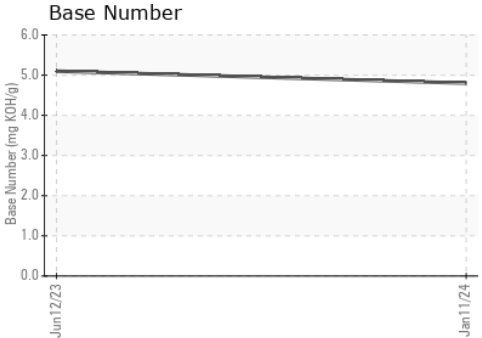
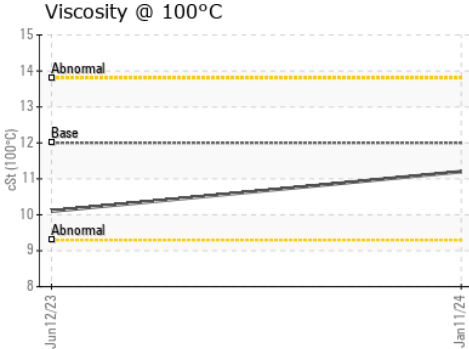
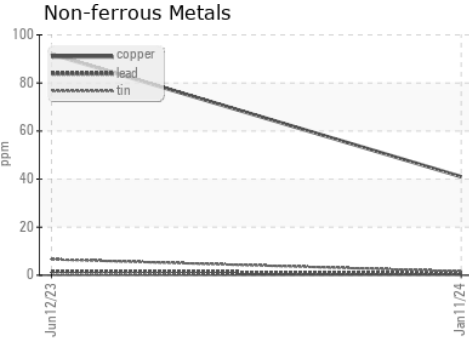
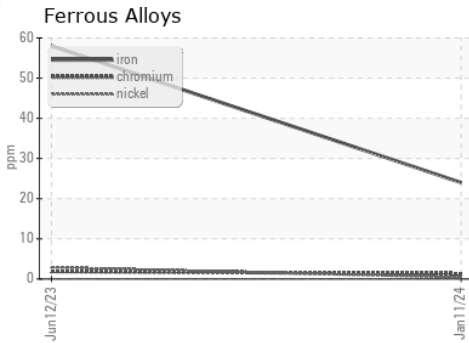
# OIL ANALYSIS REPORT



PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	10.1

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0113227 **Received** : 22 Jan 2024  
**Lab Number** : 06066441 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10843118 **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)