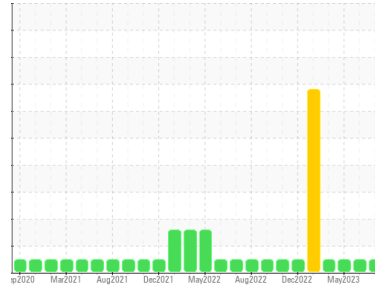


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**10037**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 15W40 (9 GAL)**

## 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>PCA0095297</b>	PCA0098115	PCA0098085
Sample Date	Client Info		<b>27 Jul 2023</b>	08 Jun 2023	11 May 2023
Machine Age	hrs	Client Info	<b>10429</b>	10047	9753
Oil Age	hrs	Client Info	<b>382</b>	294	603
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	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>17</b>	8	17
Chromium	ppm	ASTM D5185m >20	<b>1</b>	<1	2
Nickel	ppm	ASTM D5185m >5	<b>4</b>	4	4
Titanium	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	<1	3
Lead	ppm	ASTM D5185m >40	<b>1</b>	<1	3
Copper	ppm	ASTM D5185m >330	<b>4</b>	3	5
Tin	ppm	ASTM D5185m >15	<b>2</b>	1	2
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	<1

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	1	17
Barium	ppm	ASTM D5185m 0	<b>1</b>	2	0
Molybdenum	ppm	ASTM D5185m 60	<b>63</b>	69	63
Manganese	ppm	ASTM D5185m 0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m 1010	<b>946</b>	958	1010
Calcium	ppm	ASTM D5185m 1070	<b>1089</b>	1114	1162
Phosphorus	ppm	ASTM D5185m 1150	<b>934</b>	1040	960
Zinc	ppm	ASTM D5185m 1270	<b>1211</b>	1279	1297
Sulfur	ppm	ASTM D5185m 2060	<b>2537</b>	3473	3364

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>5</b>	4	7
Sodium	ppm	ASTM D5185m	<b>13</b>	9	10
Potassium	ppm	ASTM D5185m >20	<b>3</b>	2	4

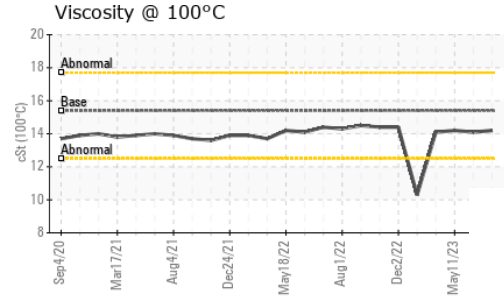
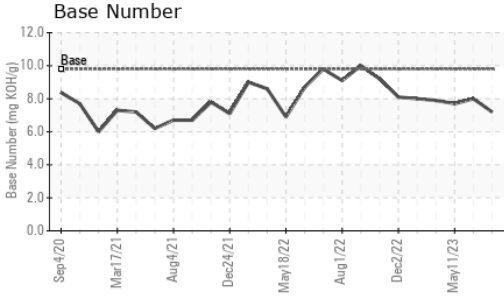
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >4	<b>1.1</b>	0.5	0.7
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.9</b>	6.8	8.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>21.0</b>	20.1	20.2

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>17.0</b>	16.4	15.8
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>7.2</b>	8.0	7.7

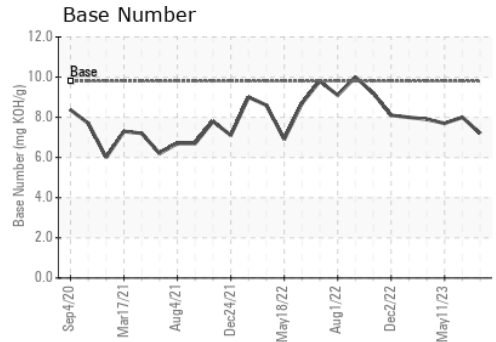
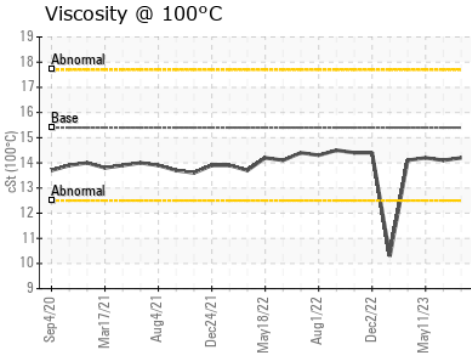
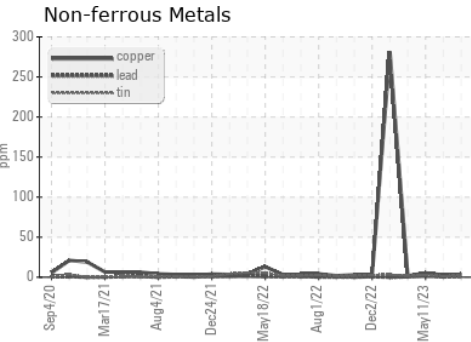
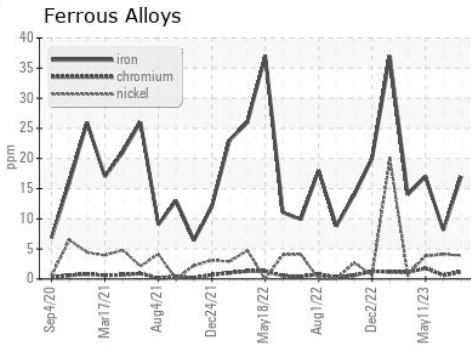
# OIL ANALYSIS REPORT



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	15.4	<b>14.2</b>	14.1	14.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0095297  
**Lab Number** : **05921287**  
**Unique Number** : 10593201  
**Test Package** : FLEET

**LRS - BETHEL HEIGHTS (NWA AR)**  
 848 HWY 264 E  
 BETHEL HEIGHTS, AR  
 US 72764  
 Contact: ROBERT HEATH  
 rhealth@lrsrecycles.com  
 T: (479)305-8958  
 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)