



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area

**LUBES**

Machine Id

**154**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 10W30 (42 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0109598</b>	PCA0109679	PCA09160035
Sample Date		Client Info		<b>16 Apr 2024</b>	05 Dec 2023	27 Dec 2016
Machine Age	mls	Client Info		<b>207429</b>	140417	420000
Oil Age	mls	Client Info		<b>12000</b>	16000	---
Filter Age	mls	Client Info		<b>12000</b>	16000	---
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	<b>14</b>	10	16
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>7</b>	4	0
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	22
Copper	ppm	ASTM D5185m	>30	<b>5</b>	5	14
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

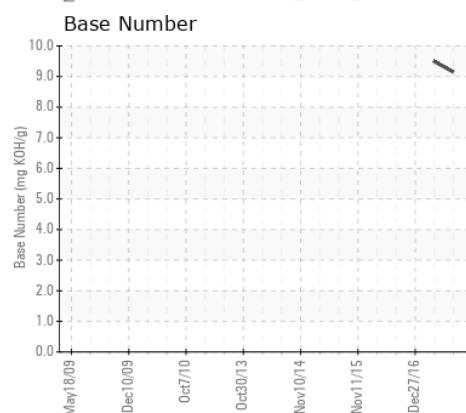
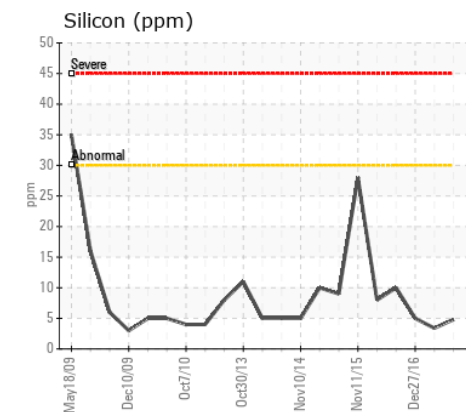
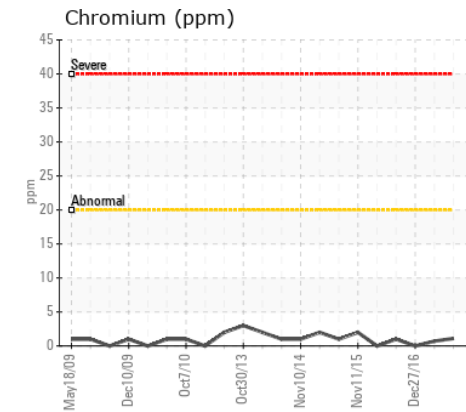
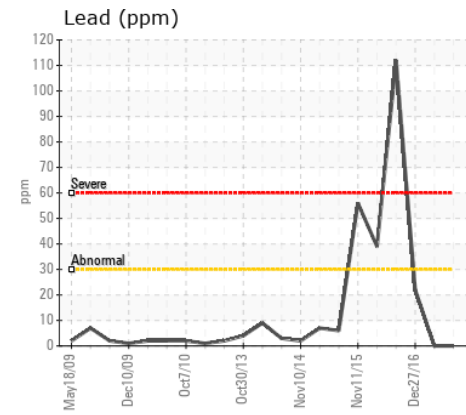
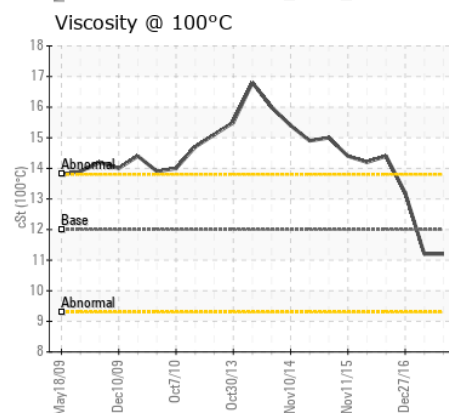
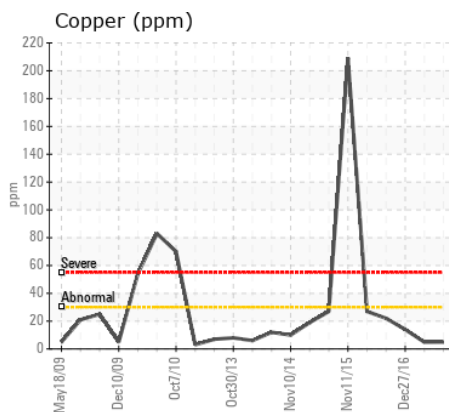
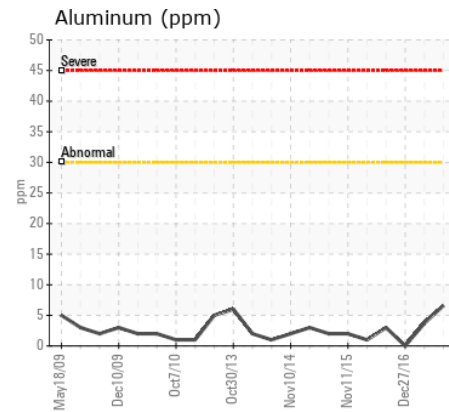
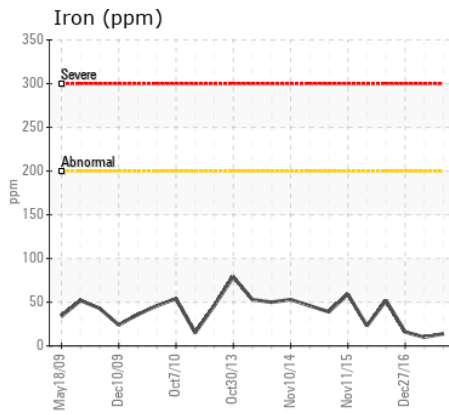
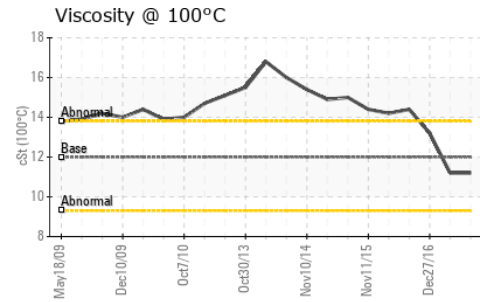
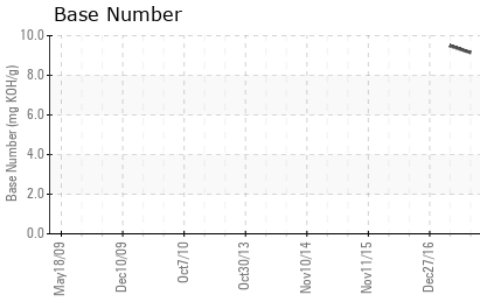
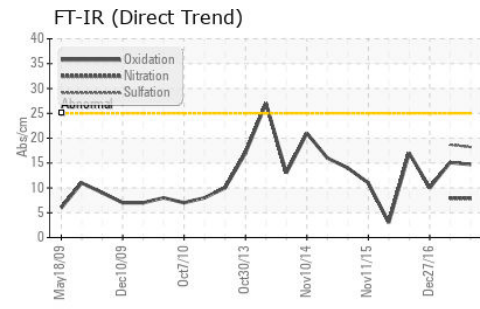
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>5</b>	3	5
Potassium	ppm	ASTM D5185m	>20	<b>13</b>	4	0
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	0.0
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.4	0.54
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.9</b>	7.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.2</b>	18.7	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**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.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	7
Boron	ppm	ASTM D5185m	2	<b>12</b>	4	36
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>64</b>	60	48
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m	950	<b>907</b>	967	701
Calcium	ppm	ASTM D5185m	1050	<b>1085</b>	1061	1528
Phosphorus	ppm	ASTM D5185m	995	<b>1030</b>	1018	950
Zinc	ppm	ASTM D5185m	1180	<b>1191</b>	1266	1047
Sulfur	ppm	ASTM D5185m	2600	<b>3162</b>	2879	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.7</b>	15.1	10
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.15</b>	9.49	---
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.2</b>	11.2	13.2



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0109598  
**Lab Number** : 06155259  
**Unique Number** : 10990682  
**Test Package** : MOB 2

**DENNIS K BURKE INC - INTERNAL SAMPLES**  
 555 CONSTITUTION DR  
 TAUNTON, MA  
 US 02780  
 Contact: GREG DUNKER

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)