



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

Machine Id  
**2227012**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0114801</b>	PCA0106382	PCA0101147
Sample Date		Client Info		<b>24 Jan 2024</b>	09 Dec 2023	15 Oct 2023
Machine Age	mls	Client Info		<b>136279</b>	115138	0
Oil Age	mls	Client Info		<b>30000</b>	15000	15000
Filter Age	mls	Client Info		<b>15000</b>	15000	15000
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>27</b>	21	31
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>4</b>	2	<1
Titanium	ppm	ASTM D5185m		<b>6</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	4	16
Lead	ppm	ASTM D5185m	>40	<b>2</b>	2	2
Copper	ppm	ASTM D5185m	>330	<b>16</b>	17	53
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

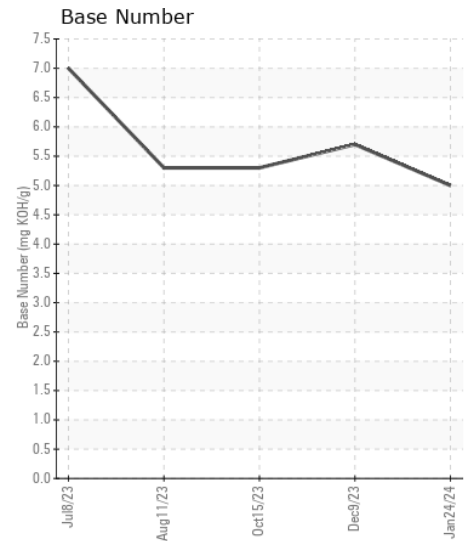
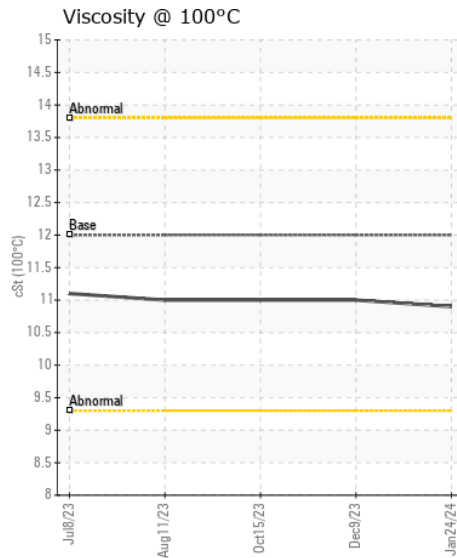
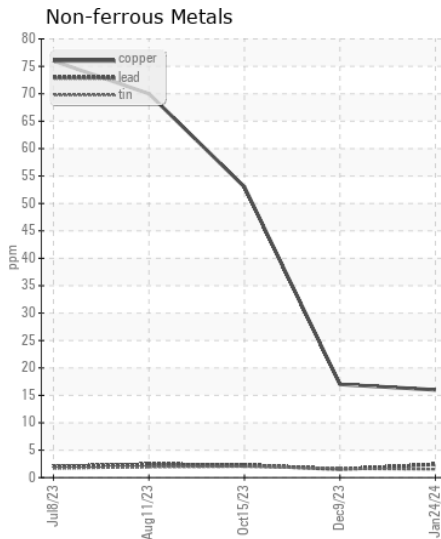
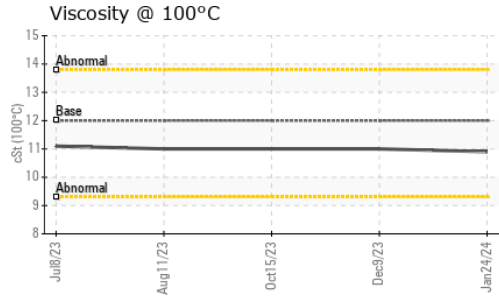
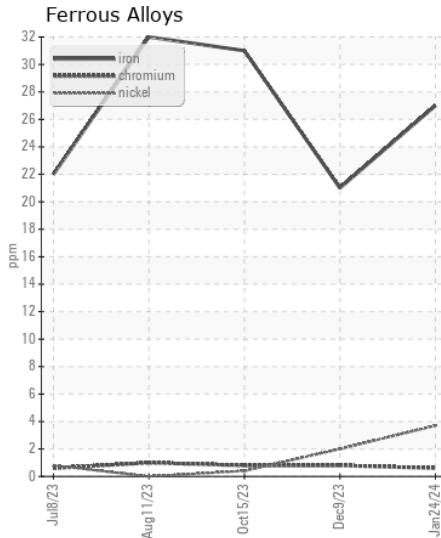
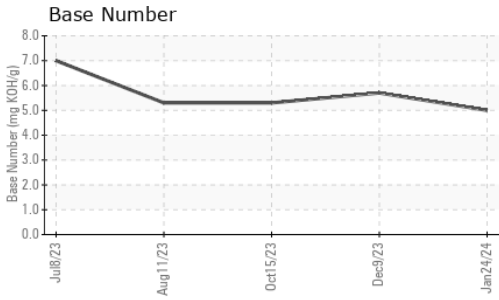
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	14	49
Fuel		WC Method	>5	<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
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	9.3	11.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.7</b>	20.6	22.2
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	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>2</b>	0	3
Boron	ppm	ASTM D5185m	2	<b>4</b>	0	3
Barium	ppm	ASTM D5185m	0	<b>0</b>	11	0
Molybdenum	ppm	ASTM D5185m	50	<b>54</b>	60	58
Manganese	ppm	ASTM D5185m	0	<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m	950	<b>840</b>	891	847
Calcium	ppm	ASTM D5185m	1050	<b>1081</b>	1068	1019
Phosphorus	ppm	ASTM D5185m	995	<b>935</b>	897	805
Zinc	ppm	ASTM D5185m	1180	<b>1208</b>	1170	1082
Sulfur	ppm	ASTM D5185m	2600	<b>2616</b>	2874	2024
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.5</b>	17.2	19.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.0</b>	5.7	5.3
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.9</b>	11.0	11.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0114801 **Received** : 31 Jan 2024  
**Lab Number** : 06075554 **Diagnosed** : 01 Feb 2024  
**Unique Number** : 10857645 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

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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