



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

Machine Id  
**2227114**  
 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>PCA0124279</b>	PCA0114781	PCA0114815
Sample Date		Client Info		<b>10 Jun 2024</b>	30 Mar 2024	29 Jan 2024
Machine Age	mls	Client Info		<b>0</b>	0	610000
Oil Age	mls	Client Info		<b>0</b>	20000	20000
Filter Age	mls	Client Info		<b>0</b>	20000	20000
Oil Changed		Client Info		<b>N/A</b>	Changed	N/A
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>14</b>	29	20
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>2</b>	3	5
Titanium	ppm	ASTM D5185m		<b>14</b>	6	4
Silver	ppm	ASTM D5185m	>3	<b>1</b>	<1	3
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	11	8
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>133</b>	201	438
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	2	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

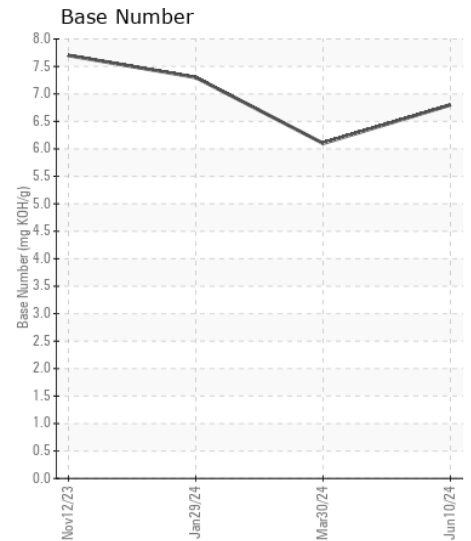
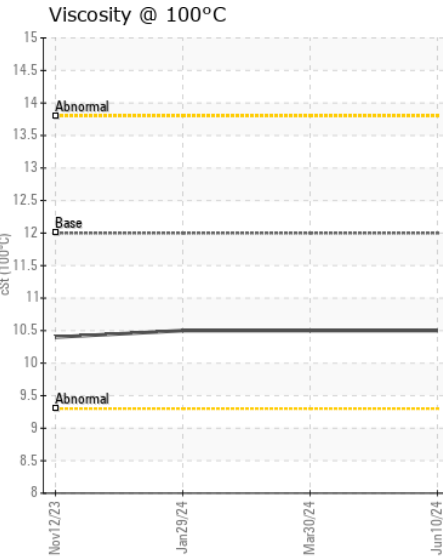
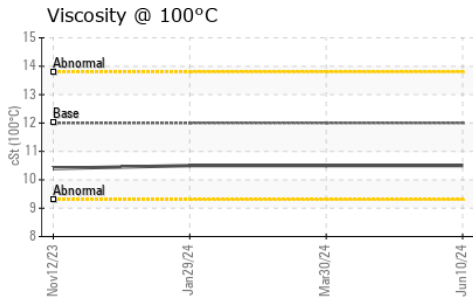
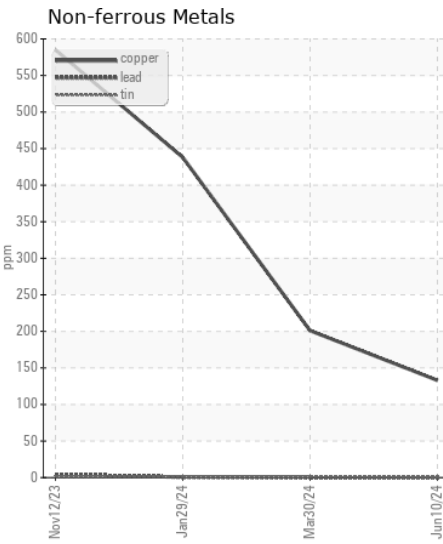
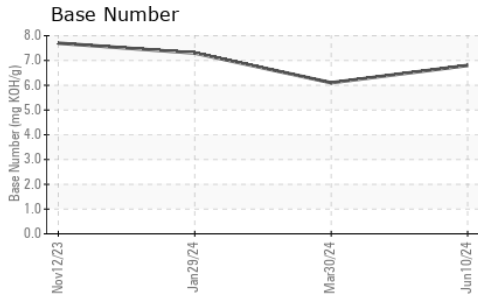
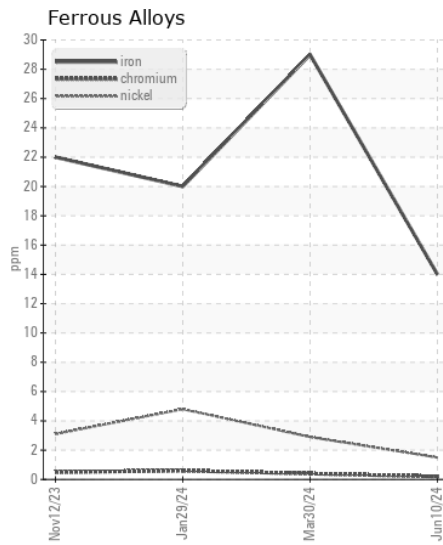
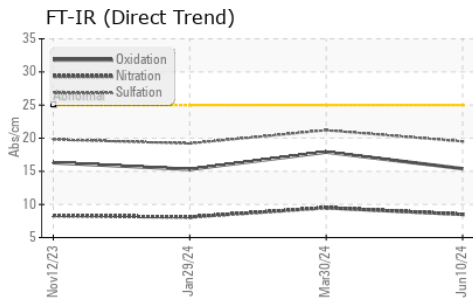
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>14</b>	25	22
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>0.3</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	9.5	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.5</b>	21.2	19.2
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>1</b>	2	0
Boron	ppm	ASTM D5185m	2	<b>8</b>	5	4
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	13
Molybdenum	ppm	ASTM D5185m	50	<b>50</b>	57	60
Manganese	ppm	ASTM D5185m	0	<b>0</b>	1	1
Magnesium	ppm	ASTM D5185m	950	<b>842</b>	910	875
Calcium	ppm	ASTM D5185m	1050	<b>1271</b>	1217	1121
Phosphorus	ppm	ASTM D5185m	995	<b>959</b>	939	985
Zinc	ppm	ASTM D5185m	1180	<b>1281</b>	1202	1151
Sulfur	ppm	ASTM D5185m	2600	<b>2605</b>	2449	3011
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.4</b>	17.9	15.3
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.8</b>	6.1	7.3
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.5</b>	10.5	10.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124279  
**Lab Number** : 06220728  
**Unique Number** : 11098925  
**Test Package** : FLEET

**Received** : 26 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 27 Jun 2024 - Wes Davis

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 SALISBURY, MD  
 US 21802

Contact: RICHARD O'NEAL  
 richard.oneal@perdue.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)

T: (410)543-3628  
 F: (410)341-2164