



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

Machine Id  
**2026871**  
Component  
**Front Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0099531</b>	PCA0081622	PCA0081633
Sample Date		Client Info		<b>30 Dec 2023</b>	29 Mar 2023	23 Dec 2022
Machine Age	mls	Client Info		<b>237424</b>	198228	178415
Oil Age	mls	Client Info		<b>40000</b>	20000	20000
Filter Age	mls	Client Info		<b>20000</b>	20000	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Not 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>33</b>	50	31
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>2</b>	4	4
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>3</b>	2	2
Lead	ppm	ASTM D5185m	>40	<b>1</b>	2	2
Copper	ppm	ASTM D5185m	>330	<b>8</b>	17	13
Tin	ppm	ASTM D5185m	>15	<b>1</b>	2	1
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**

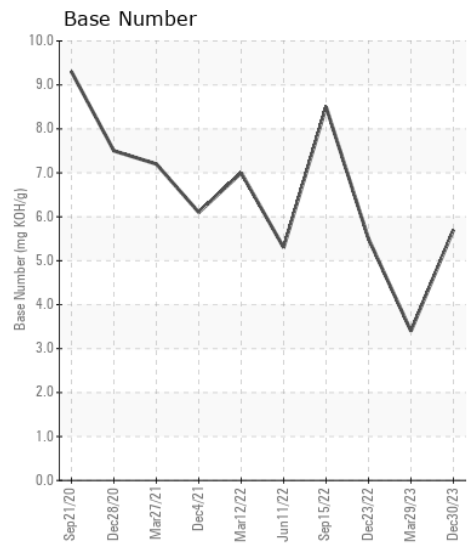
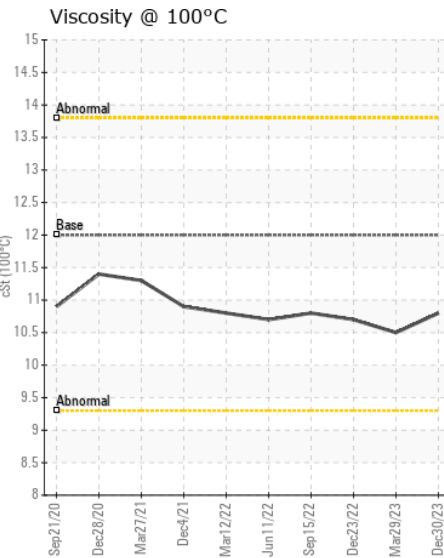
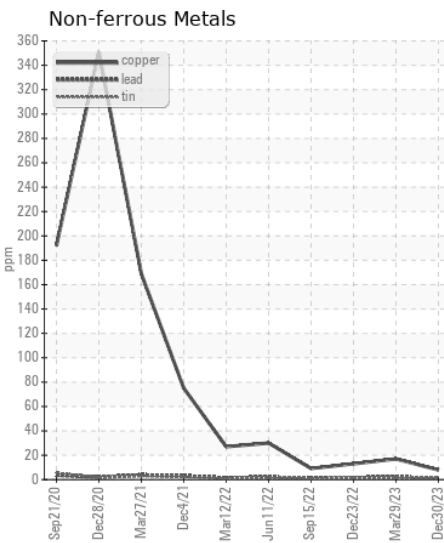
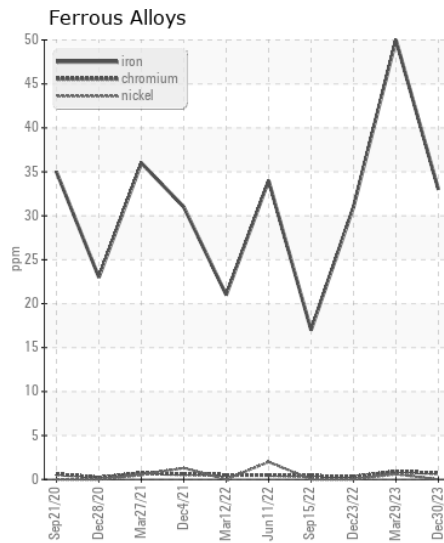
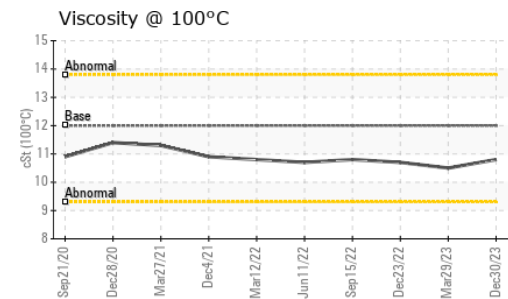
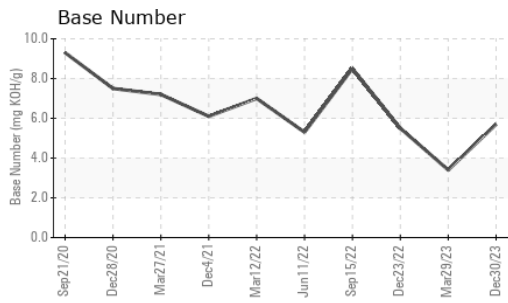
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	6	4
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	6	5
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>0.4</b>	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.1</b>	10.7	9.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	21.8	21.4
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	<1
Boron	ppm	ASTM D5185m	2	<b>2</b>	0	<1
Barium	ppm	ASTM D5185m	0	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	50	<b>54</b>	55	55
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>865</b>	759	758
Calcium	ppm	ASTM D5185m	1050	<b>1044</b>	1118	1177
Phosphorus	ppm	ASTM D5185m	995	<b>947</b>	854	873
Zinc	ppm	ASTM D5185m	1180	<b>1203</b>	1147	1132
Sulfur	ppm	ASTM D5185m	2600	<b>2795</b>	2676	2366
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>16.6</b>	18.3	16.5
Base Number (BN)	mg KOH/g	ASTM D2896		<b>5.7</b>	3.4	5.5
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.8</b>	10.5	10.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0099531 **Received** : 10 Jan 2024  
**Lab Number** : 06056404 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822353 **Diagnostician** : Angela Borella  
**Test Package** : FLEET

**PERDUE FARMS - SALISBURY**  
 7036 ZION CHURCH ROAD  
 SALISBURY, MD  
 US 21802  
 Contact: RICHARD O'NEAL  
 richard.oneal@perdue.com  
 T: (410)543-3628  
 F: (410)341-2164

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)