



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

Machine Id  
**1926718**  
Component  
**Diesel Engine**  
Fluid  
**PETRO CANADA DURON SHP 10W30 (--- QTS)**

**RECOMMENDATION**

The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0116305</b>	PCA0099509	PCA0079851
Sample Date		Client Info		<b>29 Jan 2024</b>	31 May 2023	25 Sep 2022
Machine Age	mls	Client Info		<b>494298</b>	360412	40000
Oil Age	mls	Client Info		<b>494298</b>	20000	40000
Filter Age	mls	Client Info		<b>0</b>	20000	40000
Oil Changed		Client Info		<b>N/A</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>78</b>	37	63
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>2</b>	2	13
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	<1	5
Lead	ppm	ASTM D5185m	>40	<b>1</b>	0	3
Copper	ppm	ASTM D5185m	>330	<b>13</b>	6	14
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	2
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

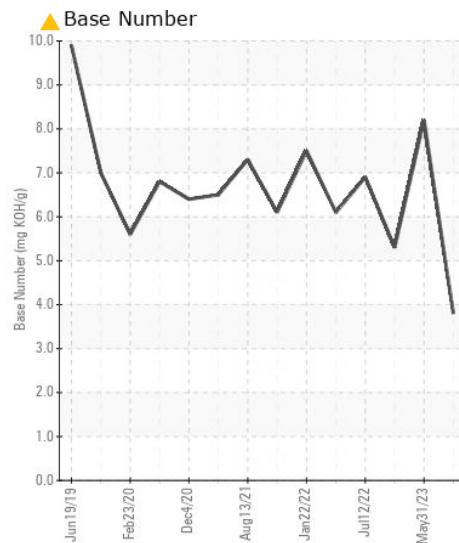
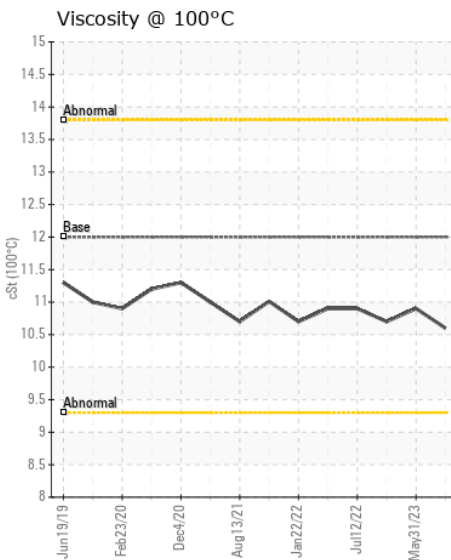
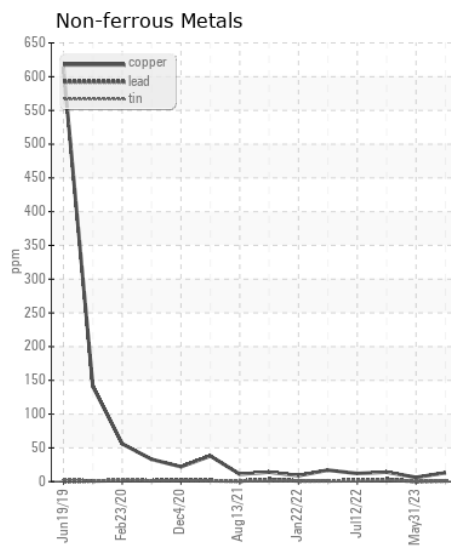
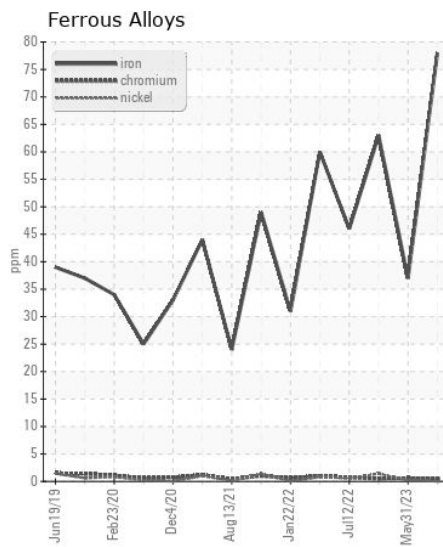
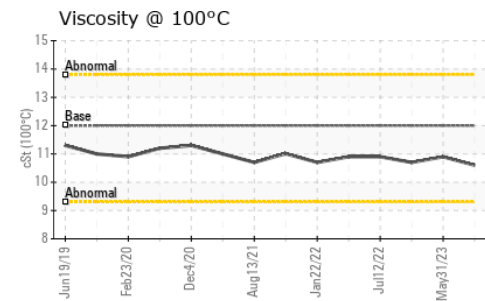
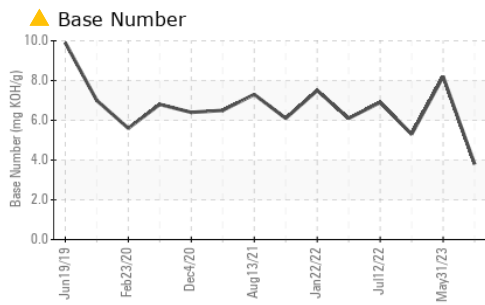
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	1
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>0.6</b>	0.3	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.8</b>	7.5	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>24.3</b>	19.3	26.0
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 level is low. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>7</b>	7	14
Boron	ppm	ASTM D5185m	2	<b>0</b>	3	0
Barium	ppm	ASTM D5185m	0	<b>9</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>58</b>	57	43
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	2
Magnesium	ppm	ASTM D5185m	950	<b>827</b>	965	752
Calcium	ppm	ASTM D5185m	1050	<b>995</b>	1094	1136
Phosphorus	ppm	ASTM D5185m	995	<b>737</b>	1018	835
Zinc	ppm	ASTM D5185m	1180	<b>1095</b>	1263	1078
Sulfur	ppm	ASTM D5185m	2600	<b>2274</b>	3643	2543
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.6</b>	15.0	22.0
Base Number (BN)	mg KOH/g	ASTM D2896		<b>▲ 3.8</b>	8.2	5.3
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.6</b>	10.9	10.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0116305  
**Lab Number** : 06088557  
**Unique Number** : 10876002  
**Test Package** : FLEET  
**Received** : 14 Feb 2024  
**Tested** : 15 Feb 2024  
**Diagnosed** : 15 Feb 2024 - Jonathan Hester

**PERDUE FARMS - SALISBURY**  
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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)