



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

Machine Id  
**04563**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (16 QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0123634</b>	PCA0116243	PCA0112380
Sample Date		Client Info		<b>15 May 2024</b>	26 Feb 2024	21 Nov 2023
Machine Age	hrs	Client Info		<b>14635</b>	10676	10538
Oil Age	hrs	Client Info		<b>180</b>	10061	10538
Filter Age	hrs	Client Info		<b>180</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>85</b>	69	31
Chromium	ppm	ASTM D5185m	>20	<b>3</b>	3	<1
Nickel	ppm	ASTM D5185m	>4	<b>2</b>	3	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>20	<b>6</b>	7	2
Lead	ppm	ASTM D5185m	>40	<b>2</b>	3	6
Copper	ppm	ASTM D5185m	>330	<b>2</b>	2	2
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	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.

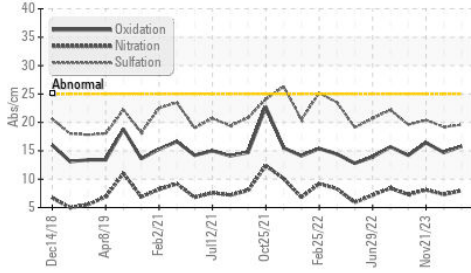
Silicon	ppm	ASTM D5185m	>25	<b>19</b>	19	3
Potassium	ppm	ASTM D5185m	>20	<b>35</b>	21	0
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.5	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.0</b>	7.3	8.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>19.6</b>	19.2	20.4
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**

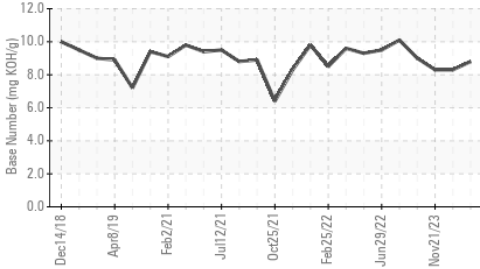
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>11</b>	8	3
Boron	ppm	ASTM D5185m	2	<b>7</b>	22	11
Barium	ppm	ASTM D5185m	0	<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m	50	<b>66</b>	102	64
Manganese	ppm	ASTM D5185m	0	<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185m	950	<b>1028</b>	1361	989
Calcium	ppm	ASTM D5185m	1050	<b>1216</b>	1638	1112
Phosphorus	ppm	ASTM D5185m	995	<b>1051</b>	1503	1047
Zinc	ppm	ASTM D5185m	1180	<b>1278</b>	1840	1325
Sulfur	ppm	ASTM D5185m	2600	<b>3643</b>	5319	3112
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.8</b>	14.7	16.4
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.8</b>	8.3	8.3
Visc @ 100°C	cSt	ASTM D445	12.00	<b>11.6</b>	11.5	11.7

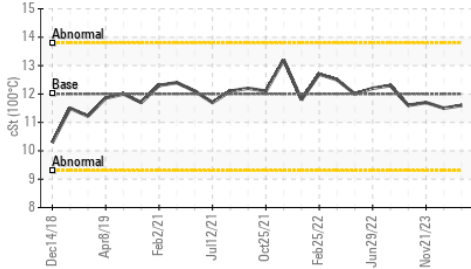
**FT-IR (Direct Trend)**



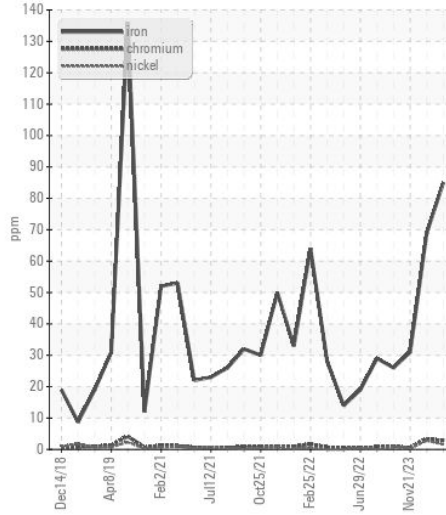
**Base Number**



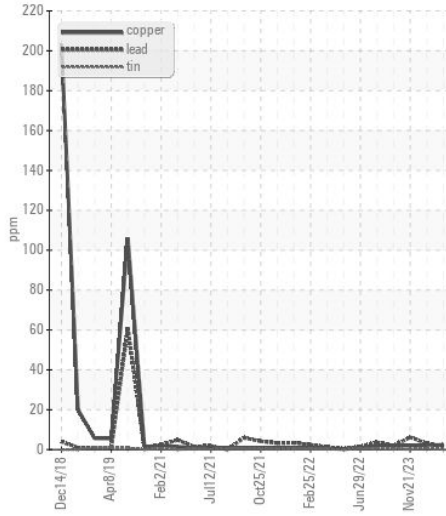
**Viscosity @ 100°C**



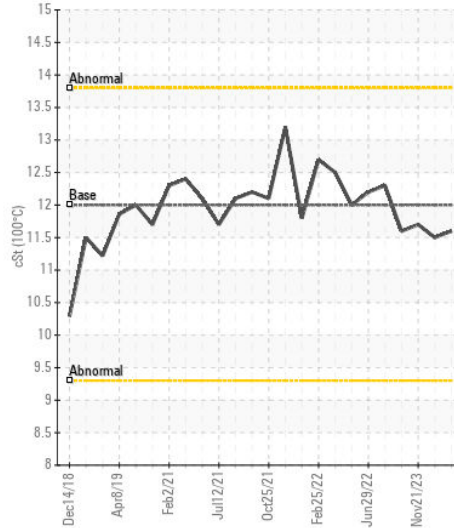
**Ferrous Alloys**



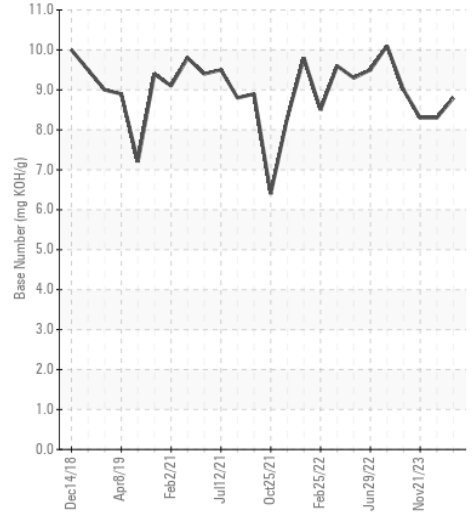
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0123634  
**Lab Number** : 06240112  
**Unique Number** : 11128946  
**Test Package** : FLEET

**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Wes Davis

**PERDUE FARMS - DILLON**  
 2047 HWY 9 WEST  
 DILLON, SC  
 US 29536

Contact: KEVIN HOOKS  
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 F: (843)841-8070

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)