



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

Machine Id  
**1926748**  
 Component  
**Diesel Engine**  
 Fluid  
**PETRO CANADA DURON UHP 5W30 (--- GAL)**

**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>PCA0123196</b>	PCA0102457	PCA0088727
Sample Date		Client Info		<b>26 May 2024</b>	23 Nov 2023	13 Aug 2023
Machine Age	mls	Client Info		<b>251946</b>	0	212230
Oil Age	mls	Client Info		<b>40000</b>	20000	15000
Filter Age	mls	Client Info		<b>20000</b>	20000	15000
Oil Changed		Client Info		<b>Changed</b>	Not Changed	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>34</b>	18	37
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>4</b>	1	7
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	2	3
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	1
Copper	ppm	ASTM D5185m	>330	<b>8</b>	7	7
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	1
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.

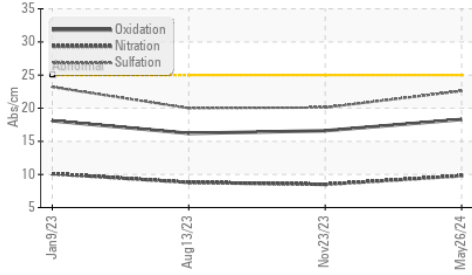
Silicon	ppm	ASTM D5185m	>25	<b>2</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	6
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.8</b>	8.5	8.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	20.1	20.0
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**

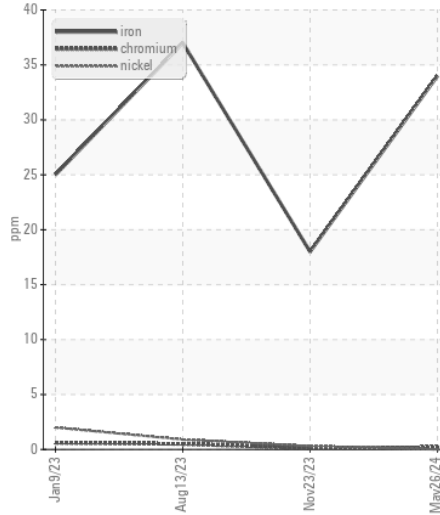
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>14</b>	7	11
Boron	ppm	ASTM D5185m	0	<b>0</b>	4	0
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	64	<b>55</b>	55	54
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	1160	<b>880</b>	844	832
Calcium	ppm	ASTM D5185m	820	<b>1163</b>	1071	1107
Phosphorus	ppm	ASTM D5185m	1160	<b>951</b>	934	945
Zinc	ppm	ASTM D5185m	1260	<b>1193</b>	1090	1149
Sulfur	ppm	ASTM D5185m	3000	<b>3228</b>	2629	2895
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.3</b>	16.6	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	<b>5.3</b>	7.2	6.2
Visc @ 100°C	cSt	ASTM D445	11.9	<b>11.1</b>	10.9	10.7

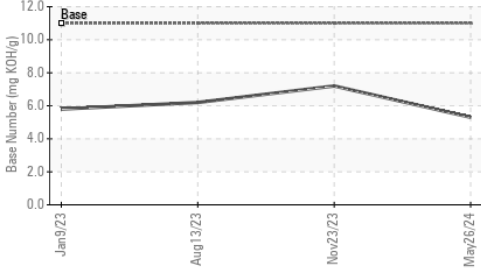
**FT-IR (Direct Trend)**



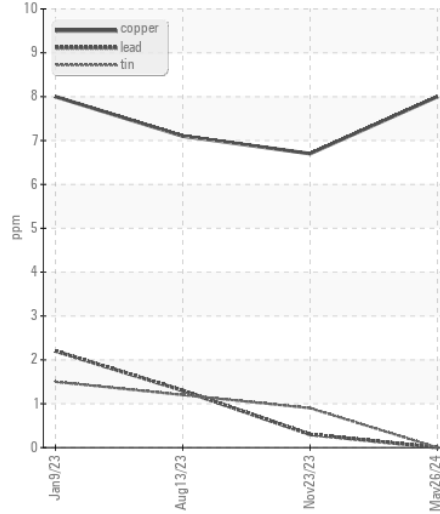
**Ferrous Alloys**



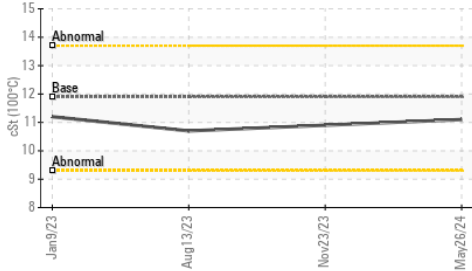
**Base Number**



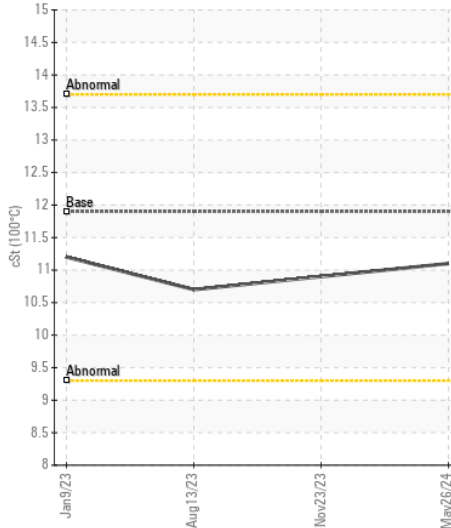
**Non-ferrous Metals**



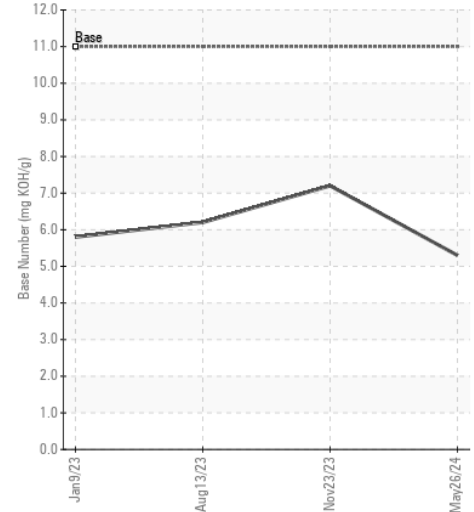
**Viscosity @ 100°C**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : PCA0123196

**Lab Number** : 06197276

**Unique Number** : 11059399

**Test Package** : FLEET

**Received** : 03 Jun 2024

**Tested** : 03 Jun 2024

**Diagnosed** : 03 Jun 2024 - Wes Davis

**PERDUE FARMS - SALISBURY**

7036 ZION CHURCH ROAD

SALISBURY, MD

US 21802

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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)