



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

Area

**FLEET**  
Machine Id

**OTTAWA 6634 (S/N 301323)**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON SHP 10W30 (--- QTS)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>PCA0124265</b>	PCA0055002	PCA0004684
Sample Date		Client Info		<b>20 May 2024</b>	09 Aug 2021	14 Jul 2019
Machine Age	mls	Client Info		<b>11180</b>	6	11149
Oil Age	mls	Client Info		<b>0</b>	6	0
Filter Age	mls	Client Info		<b>0</b>	6	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	<b>8</b>	42	12
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	5	2
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	3	0
Titanium	ppm	ASTM D5185m	>2	<b>2</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	3	2
Lead	ppm	ASTM D5185m	>40	<b>0</b>	2	2
Copper	ppm	ASTM D5185m	>330	<b>1</b>	9	4
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
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.

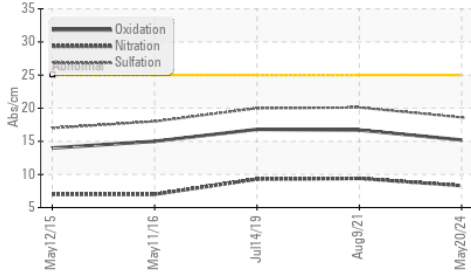
Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	2	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	3
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.3</b>	9.4	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.6</b>	20.1	20
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**

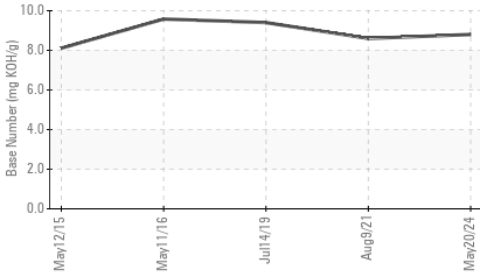
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>3</b>	1	4
Boron	ppm	ASTM D5185m	2	<b>0</b>	10	8
Barium	ppm	ASTM D5185m	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	50	<b>59</b>	63	58
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	950	<b>958</b>	954	1020
Calcium	ppm	ASTM D5185m	1050	<b>1213</b>	1176	1178
Phosphorus	ppm	ASTM D5185m	995	<b>1125</b>	1054	993
Zinc	ppm	ASTM D5185m	1180	<b>1293</b>	1301	1224
Sulfur	ppm	ASTM D5185m	2600	<b>3738</b>	2594	2588
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.2</b>	16.7	16.8
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.8</b>	8.6	9.4
Visc @ 100°C	cSt	ASTM D445	12.00	<b>10.9</b>	11.6	11.4

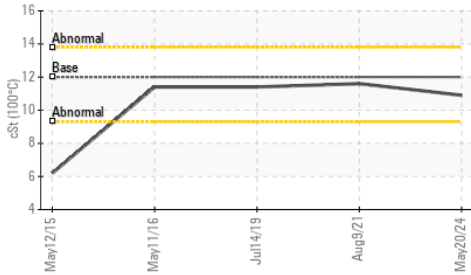
**FT-IR (Direct Trend)**



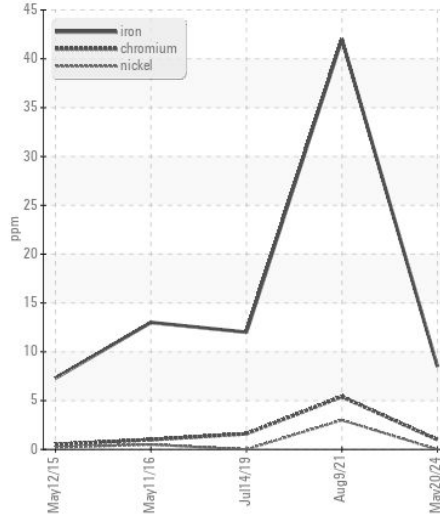
**Base Number**



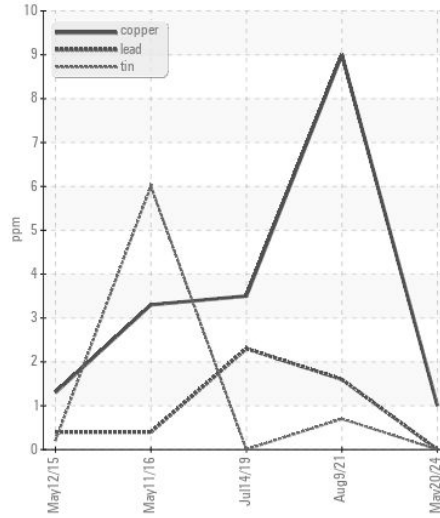
**Viscosity @ 100°C**



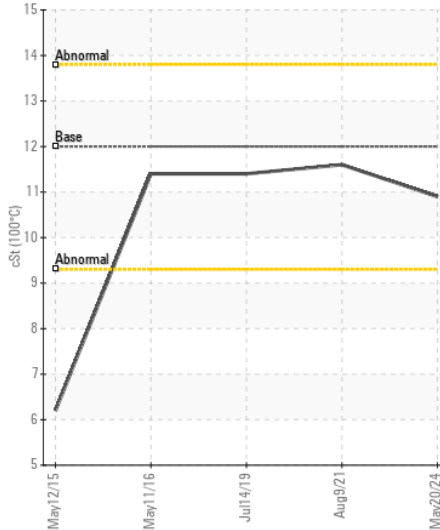
**Ferrous Alloys**



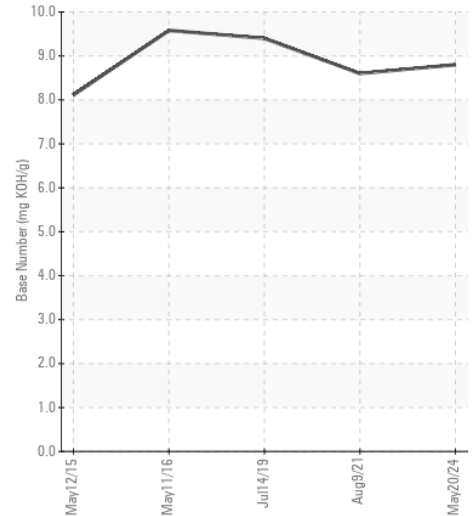
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0124265 **Received** : 03 Jun 2024  
**Lab Number** : 06197273 **Tested** : 03 Jun 2024  
**Unique Number** : 11059396 **Diagnosed** : 03 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**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)