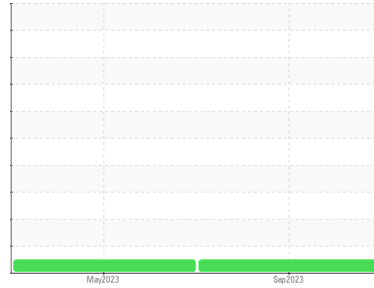


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id

**#2**

Component

**New (Unused) Oil**

Fluid

**PETRO CANADA DURON UHP E6 10W40 (--- GAL)**

## DIAGNOSIS

### Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service. Resample at the next service interval to monitor.

### Wear

{not applicable}

### Contamination

There is no indication of any contamination in the new (unused) oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0080894</b>	PC0076074	---
Sample Date	Client Info		<b>27 Sep 2023</b>	05 May 2023	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Chromium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	---
Lead	ppm	ASTM D5185(m)	<b>0</b>	0	---
Copper	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185(m)	<b>0</b>	0	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	2
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>60</b>	61
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m)	80	<b>1030</b>	990
Calcium	ppm	ASTM D5185(m)	2400	<b>1060</b>	1040
Phosphorus	ppm	ASTM D5185(m)	750	<b>1100</b>	1060
Zinc	ppm	ASTM D5185(m)	840	<b>1230</b>	1160
Sulfur	ppm	ASTM D5185(m)	2130	<b>2930</b>	2880
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

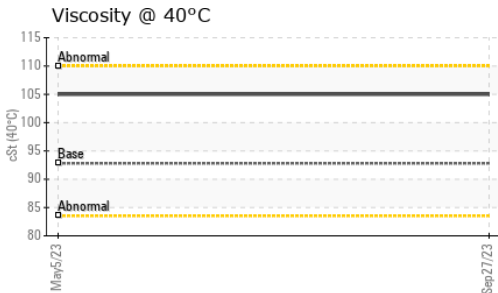
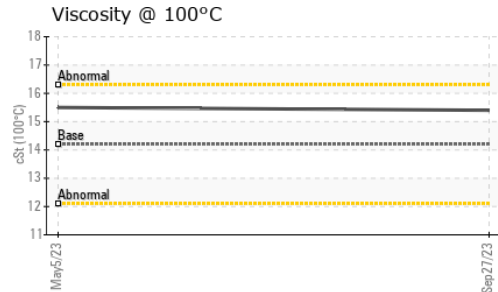
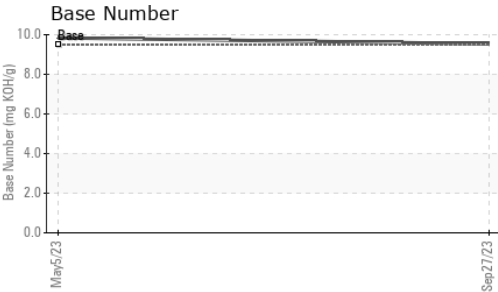
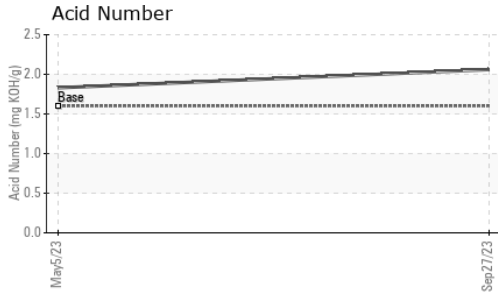
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>5</b>	5	---
Sodium	ppm	ASTM D5185(m)	<b>2</b>	1	---
Potassium	ppm	ASTM D5185(m)	>20	<b>7</b>	0

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	<b>4.2</b>	4.3	---
Sulfation	Abs/.1mm	ASTM D7415*	<b>17.1</b>	17.8	---

# OIL ANALYSIS REPORT

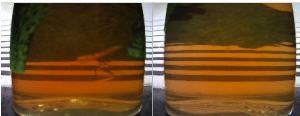
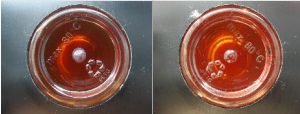


FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		<b>47397</b>	60630	---
Particles >6µm		ASTM D7647		<b>9872</b>	14883	---
Particles >14µm		ASTM D7647		<b>73</b>	235	---
Particles >21µm		ASTM D7647	>0	<b>9</b>	31	---
Particles >38µm		ASTM D7647	>0	<b>2</b>	1	---
Particles >71µm		ASTM D7647	>0	<b>1</b>	1	---
Oil Cleanliness		ISO 4406 (c)		<b>23/20/13</b>	23/21/15	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*		<b>12.1</b>	12.7	---
Acid Number (AN)	mg KOH/g	ASTM D974*	1.6	<b>2.06</b>	1.83	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.5	<b>9.54</b>	9.84	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*		<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	92.8	<b>105</b>	105	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.2	<b>15.4</b>	15.5	---
Viscosity Index (VI)	Scale	ASTM D2270*	157	<b>154</b>	156	---

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						no image
Bottom						no image



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0080894  
**Lab Number** : **02586744**  
**Unique Number** : 5655810  
**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TAN Man, TBN, VI )

**Received** : 04 Oct 2023  
**Diagnosed** : 10 Oct 2023  
**Diagnostician** : Kevin Marson

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.