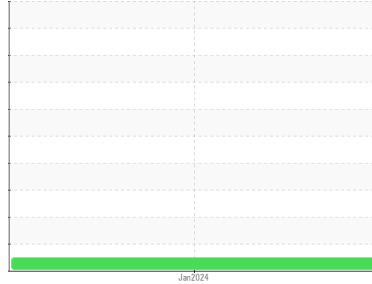


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**TOTE #3 232961**

Component  
**New (Unused) Oil**

Fluid  
**PETRO CANADA PRODURO TO-4 SYNTHETIC ALL SEASON (--- GAL)**

## DIAGNOSIS

### Recommendation

This is the baseline readout on this new (unused) oil. The fluid is suitable for service.

### Wear

{not applicable}

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. There is no indication of any contamination in the new (unused) oil.

### Fluid Condition

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>PC0080886</b>	---	---
Sample Date	Client Info	<b>23 Jan 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m)	<b>2</b>	---	---
Chromium	ppm ASTM D5185(m)	<b>0</b>	---	---
Nickel	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>0</b>	---	---
Silver	ppm ASTM D5185(m)	<b>0</b>	---	---
Aluminum	ppm ASTM D5185(m)	<b>1</b>	---	---
Lead	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185(m)	<b>0</b>	---	---
Tin	ppm ASTM D5185(m)	<b>0</b>	---	---
Antimony	ppm ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 5	<b>&lt;1</b>	---	---
Barium	ppm ASTM D5185(m) 0	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	---	---
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m) 10	<b>12</b>	---	---
Calcium	ppm ASTM D5185(m) 3068	<b>2983</b>	---	---
Phosphorus	ppm ASTM D5185(m) 1081	<b>974</b>	---	---
Zinc	ppm ASTM D5185(m) 1199	<b>1121</b>	---	---
Sulfur	ppm ASTM D5185(m) 4636	<b>4414</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

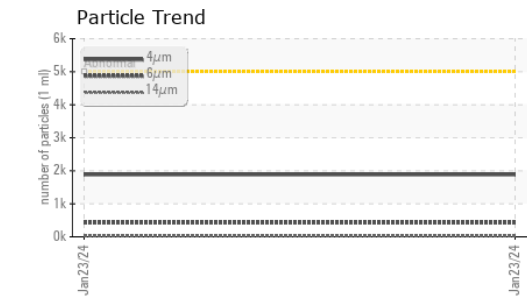
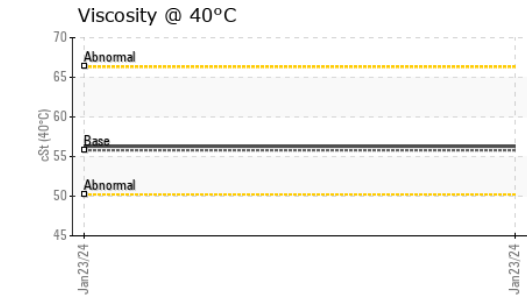
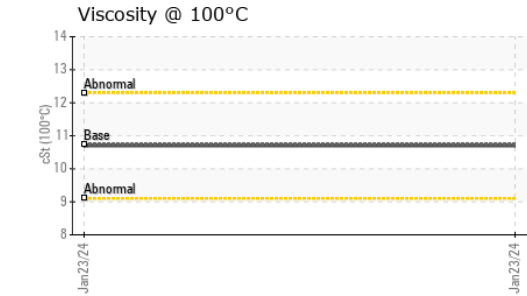
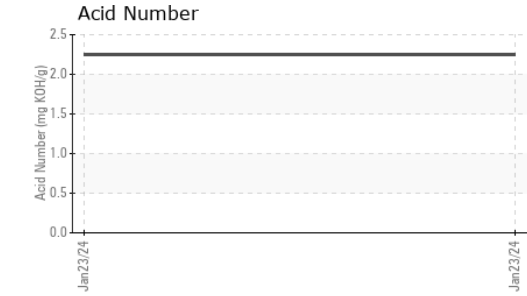
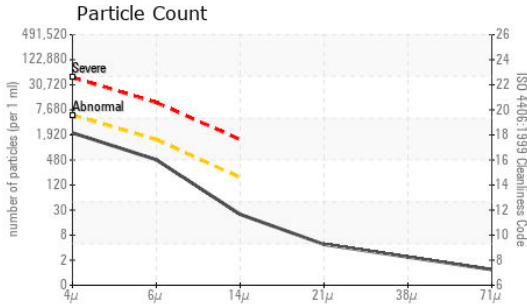
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	<b>8</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	---	---

## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	<b>0</b>	---	---
Nitration	Abs/cm ASTM D7624*	<b>3.1</b>	---	---
Sulfation	Abs/.1mm ASTM D7415*	<b>45.8</b>	---	---

# OIL ANALYSIS REPORT



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>1885</b>	---	---	
Particles >6µm	ASTM D7647	>1300	<b>427</b>	---	---	
Particles >14µm	ASTM D7647	>160	<b>21</b>	---	---	
Particles >21µm	ASTM D7647	>40	<b>4</b>	---	---	
Particles >38µm	ASTM D7647	>10	<b>2</b>	---	---	
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	---	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>18/16/12</b>	---	---	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*		<b>33.2</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>2.25</b>	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.79	<b>56.3</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.74	<b>10.7</b>	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	187	<b>184</b>	---	---

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0080886 **Received** : 26 Jan 2024  
**Lab Number** : **02611487** **Diagnosed** : 29 Jan 2024  
**Unique Number** : 5720582 **Diagnostician** : Bill Quesnel  
**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, VI )

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.

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