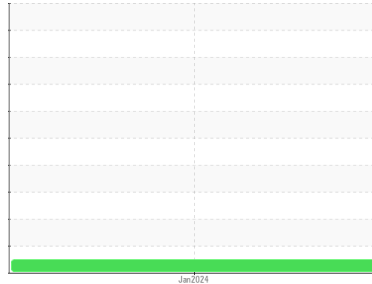


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
TOTE #2 232847

Component
New (Unused) Oil

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

DIAGNOSIS

SAMPLE INFORMATION method limit/base current history1 history2

Sample Number	Client Info	PC0080884	---	---
Sample Date	Client Info	17 Jan 2024	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		NORMAL	---	---

CONTAMINATION method limit/base current history1 history2

Water	WC Method	NEG	---	---
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WEAR METALS method limit/base current history1 history2

Iron	ppm	ASTM D5185(m)	2	---	---
Chromium	ppm	ASTM D5185(m)	0	---	---
Nickel	ppm	ASTM D5185(m)	<1	---	---
Titanium	ppm	ASTM D5185(m)	0	---	---
Silver	ppm	ASTM D5185(m)	0	---	---
Aluminum	ppm	ASTM D5185(m)	1	---	---
Lead	ppm	ASTM D5185(m)	<1	---	---
Copper	ppm	ASTM D5185(m)	0	---	---
Tin	ppm	ASTM D5185(m)	0	---	---
Antimony	ppm	ASTM D5185(m)	0	---	---
Vanadium	ppm	ASTM D5185(m)	0	---	---
Beryllium	ppm	ASTM D5185(m)	0	---	---
Cadmium	ppm	ASTM D5185(m)	0	---	---

ADDITIVES method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	5	<1	---	---
Barium	ppm	ASTM D5185(m)	0	0	---	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---	---
Manganese	ppm	ASTM D5185(m)	1	0	---	---
Magnesium	ppm	ASTM D5185(m)	10	12	---	---
Calcium	ppm	ASTM D5185(m)	3068	3069	---	---
Phosphorus	ppm	ASTM D5185(m)	1081	1014	---	---
Zinc	ppm	ASTM D5185(m)	1199	1159	---	---
Sulfur	ppm	ASTM D5185(m)	4636	4519	---	---
Lithium	ppm	ASTM D5185(m)		<1	---	---

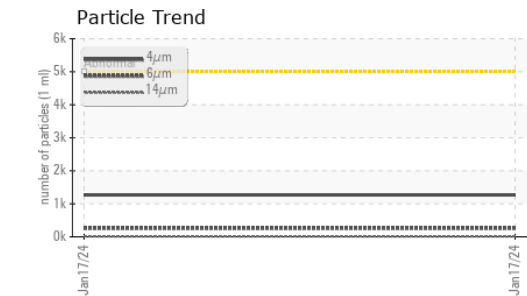
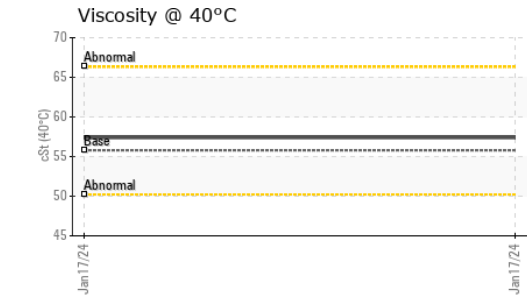
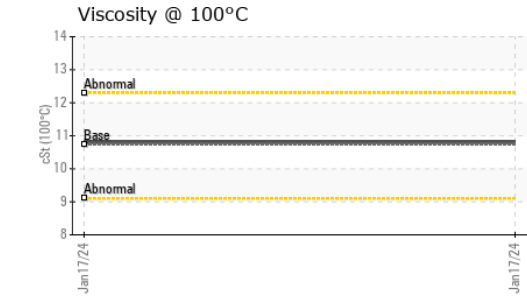
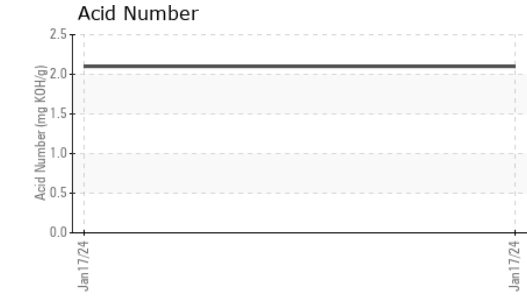
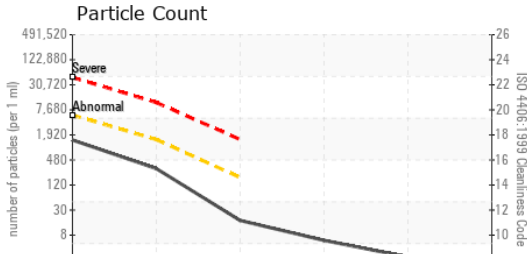
CONTAMINANTS method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)		8	---	---
Sodium	ppm	ASTM D5185(m)		<1	---	---
Potassium	ppm	ASTM D5185(m)	>20	<1	---	---

INFRA-RED method limit/base current history1 history2

Soot %	%	ASTM D7844*		0	---	---
Nitration	Abs/cm	ASTM D7624*		3.1	---	---
Sulfation	Abs/.1mm	ASTM D7415*		45.9	---	---

OIL ANALYSIS REPORT



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	1270	---	---	
Particles >6µm	ASTM D7647	>1300	262	---	---	
Particles >14µm	ASTM D7647	>160	15	---	---	
Particles >21µm	ASTM D7647	>40	5	---	---	
Particles >38µm	ASTM D7647	>10	2	---	---	
Particles >71µm	ASTM D7647	>3	2	---	---	
Oil Cleanliness	ISO 4406 (c)	>19/17/14	17/15/11	---	---	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*		33.2	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*		2.10	---	---

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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.79	57.4	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	10.74	10.8	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	187	182	---	---

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. : PC0080884 **Received** : 26 Jan 2024
Lab Number : **02611486** **Diagnosed** : 29 Jan 2024
Unique Number : 5720581 **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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