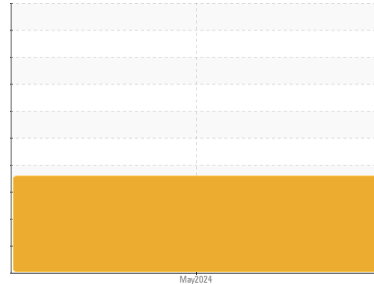


# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id

**STORAGE**

Component

**New (Unused) Oil**

Fluid

**PETRO CANADA DURATRAN (--- LTR)**

## DIAGNOSIS

### ▲ Recommendation

This is the baseline readout on this new (unused) oil. We advise that you follow the water drain-off procedure for this component. The fluid is suitable for service. We recommend an early resample to monitor this condition. NOTE: New oils are not generally filtered or guaranteed to a certain cleanliness code. We advise that you verify the target cleanliness code for your application and recommend the use of a portable filter cart to fill any system with a target code below the ISO cleanliness code of this product.

### ▲ Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Free water present.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0041319</b>	---	---
Sample Date	Client Info	<b>06 May 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>ABNORMAL</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>0</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>0</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)	110	<b>120</b>	---	---
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	13	<b>21</b>	---	---
Calcium	ppm	ASTM D5185(m)	3610	<b>3520</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1192	<b>1140</b>	---	---
Zinc	ppm	ASTM D5185(m)	1455	<b>1410</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2641	<b>2700</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

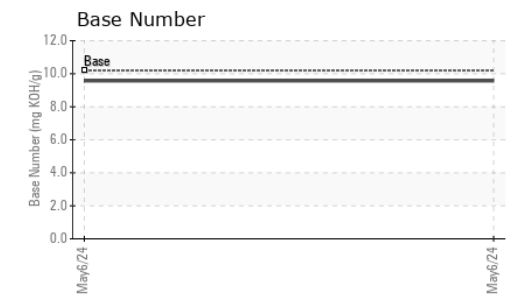
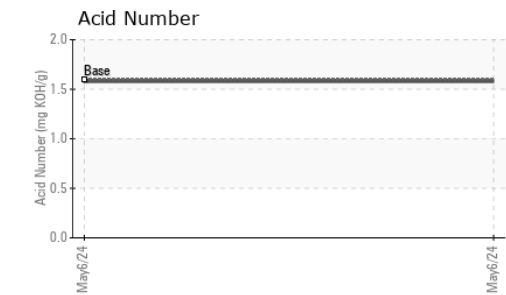
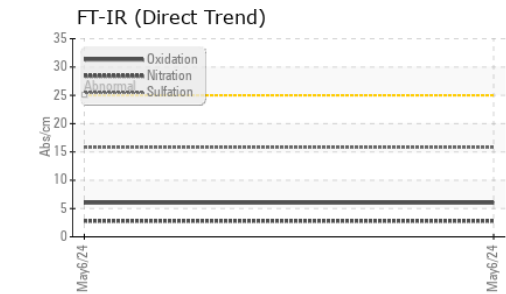
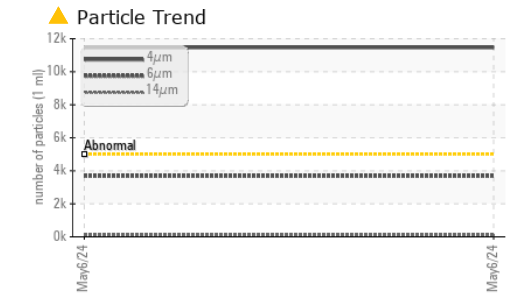
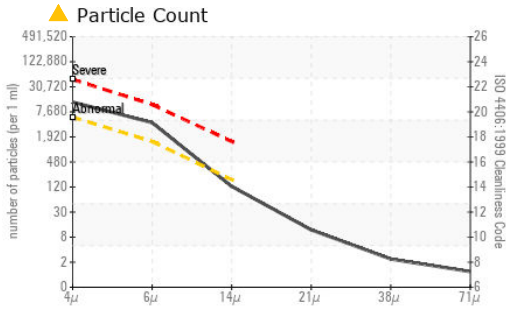
## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	<b>9</b>	---	---	
Sodium	ppm	ASTM D5185(m)	<b>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>2.8</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	<b>15.8</b>	---	---

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0041319  
**Lab Number** : 02634095  
**Unique Number** : 5775248  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KV100, PrtCount, TBN, VI )

**BRENDONN HOLDINGS LTD**  
 24 BROADWAY STREET WEST  
 YORKTON, SK  
 CA S3N 0L4  
 Contact: Tony Ripa  
 tripa@bhld.ca  
 T: (306)783-4567  
 F: (306)783-5700

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.

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 11465	---	---
Particles >6µm	ASTM D7647	>1300	▲ 3686	---	---
Particles >14µm	ASTM D7647	>160	110	---	---
Particles >21µm	ASTM D7647	>40	10	---	---
Particles >38µm	ASTM D7647	>10	2	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/19/14	---	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	6.0	---	---
Acid Number (AN)	mg KOH/g	ASTM D974*	1.6	1.58	---
Base Number (BN)	mg KOH/g	ASTM D2896*	10.2	9.57	---

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	▲ WGOIL	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	.2%	---	---
Free Water	scalar	Visual*	▲ 1%	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	55.14	56.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	9.38	8.8	---
Viscosity Index (VI)	Scale	ASTM D2270*	153	134	---

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