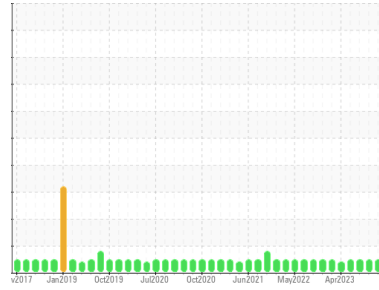


# OIL ANALYSIS REPORT

Area  
**TEAM 15**  
Machine Id  
**156300 (S/N DIFFUSION WASHER)**  
Component  
**Gearbox**  
Fluid  
**PETRO CANADA ENDURATEX EP 320 (55 GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
Resample at the next service interval to monitor.

**Wear**  
All component wear rates are normal.

**Contamination**  
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

**Fluid Condition**  
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0080403</b>	PC0078836	PC0076949
Sample Date	Client Info	<b>03 Jul 2024</b>	05 Jun 2024	14 Jan 2024
Machine Age	mths Client Info	<b>0</b>	0	0
Oil Age	mths Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >200	<b>&lt;1</b>	<1	<1
Chromium	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >15	<b>&lt;1</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >25	<b>&lt;1</b>	0	<1
Lead	ppm ASTM D5185(m) >100	<b>0</b>	0	0
Copper	ppm ASTM D5185(m) >200	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >25	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 55	<b>26</b>	27	43
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 0	<b>0</b>	<1	<1
Calcium	ppm ASTM D5185(m) 0	<b>2</b>	<1	<1
Phosphorus	ppm ASTM D5185(m) 240	<b>223</b>	226	232
Zinc	ppm ASTM D5185(m) 1	<b>2</b>	2	1
Sulfur	ppm ASTM D5185(m) 13700	<b>5850</b>	5803	6014
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

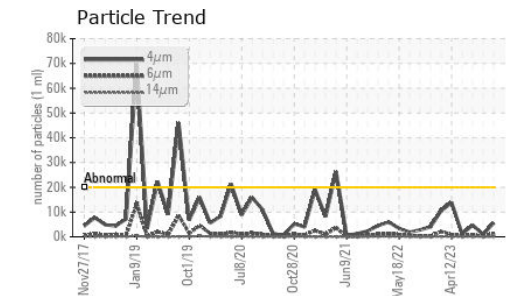
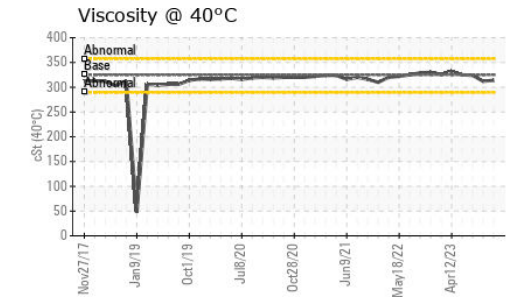
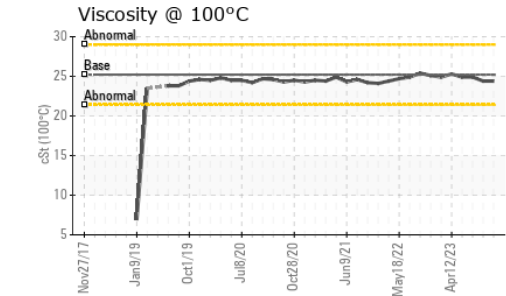
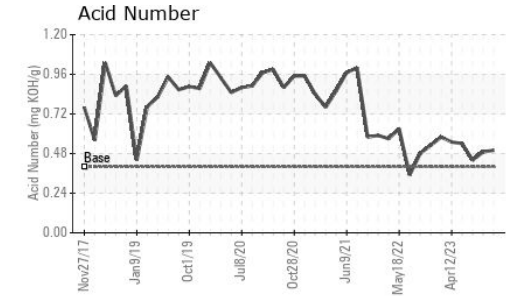
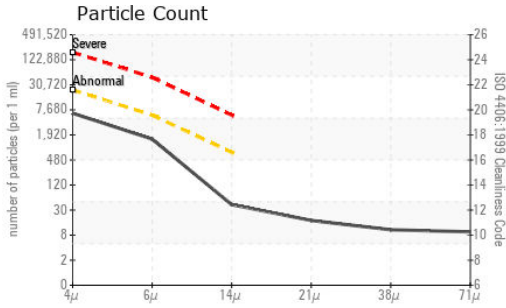
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	<b>5</b>	4	3
Sodium	ppm ASTM D5185(m)	<b>0</b>	0	0
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	<b>5556</b>	1006	4716
Particles >6µm	ASTM D7647 >5000	<b>1336</b>	304	663
Particles >14µm	ASTM D7647 >640	<b>36</b>	30	48
Particles >21µm	ASTM D7647 >160	<b>15</b>	9	14
Particles >38µm	ASTM D7647 >40	<b>9</b>	1	3
Particles >71µm	ASTM D7647 >10	<b>8</b>	0	2
Oil Cleanliness	ISO 4406 (c) >21/19/16	<b>20/18/12</b>	17/15/12	19/17/13

# OIL ANALYSIS REPORT

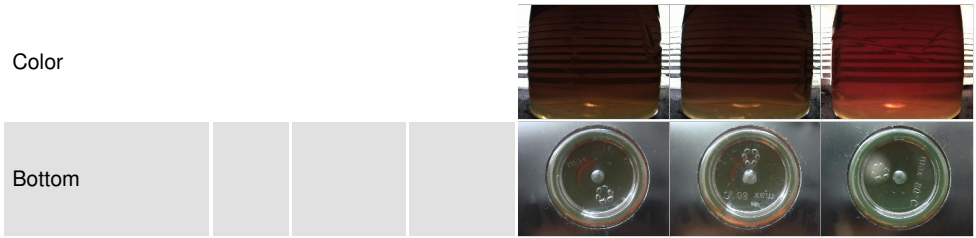


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.4	<b>0.50</b>	0.49	0.44

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
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
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	325	<b>314</b>	312	324
Visc @ 100°C	cSt	ASTM D7279(m)	25.22	<b>24.4</b>	24.4	24.9
Viscosity Index (VI)	Scale	ASTM D2270*	100	<b>98</b>	99	98

SAMPLE IMAGES		method	limit/base	current	history1	history2
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**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0080403  
**Lab Number** : **02647223**  
**Unique Number** : 5812775  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI )  
**Received** : 10 Jul 2024  
**Tested** : 11 Jul 2024  
**Diagnosed** : 11 Jul 2024 - Wes Davis

**Dryden Fibre**  
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 Dryden, ON  
 CA P8N 2Z7  
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 T: (807)223-9950  
 F: (807)223-9176

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.