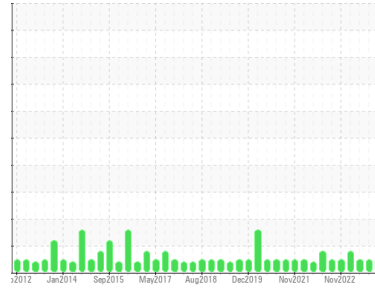


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**TEAM 15**  
Machine Id  
**150453**

Component  
**Hydraulic System**  
Fluid

**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (100 GAL)**

## 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>PC0077030</b>	PC0070412	PC0074768
Sample Date	Client Info	<b>02 Nov 2023</b>	16 Aug 2023	25 May 2023
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 >0.05	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >30	<b>1</b>	<1	<1
Chromium	ppm ASTM D5185(m) >2	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >2	<b>0</b>	0	<1
Titanium	ppm ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm ASTM D5185(m) >2	<b>0</b>	<1	0
Lead	ppm ASTM D5185(m) >10	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m) >25	<b>&lt;1</b>	<1	<1
Tin	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<b>0</b>	0	<1
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) 0	<b>&lt;1</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>&lt;1</b>	0	0
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m) 1	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 0	<b>1</b>	1	<1
Calcium	ppm ASTM D5185(m) 100	<b>98</b>	99	111
Phosphorus	ppm ASTM D5185(m) 670	<b>547</b>	675	708
Zinc	ppm ASTM D5185(m) 850	<b>701</b>	824	847
Sulfur	ppm ASTM D5185(m) 1600	<b>1264</b>	1515	1586
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

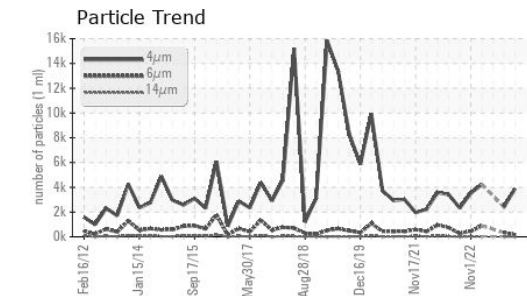
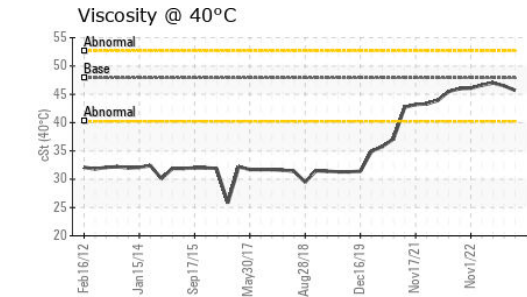
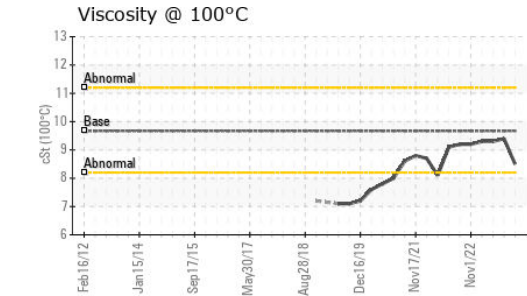
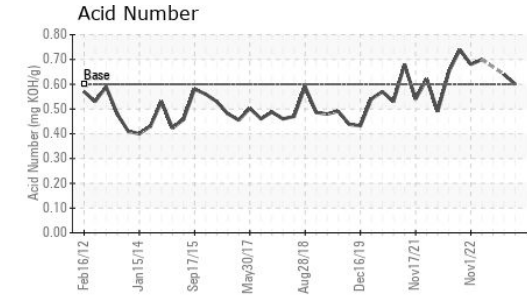
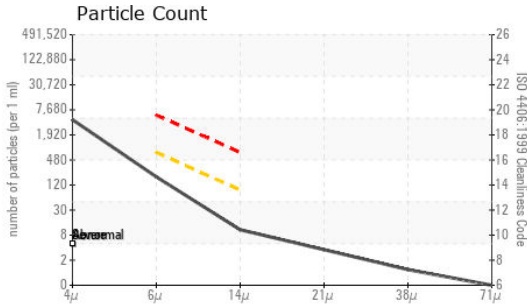
## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>1</b>	<1	<1
Sodium	ppm ASTM D5185(m)	<b>0</b>	<1	0
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>3892</b>	2412	---
Particles >6µm	ASTM D7647 >640	<b>166</b>	343	---
Particles >14µm	ASTM D7647 >80	<b>9</b>	23	---
Particles >21µm	ASTM D7647 >20	<b>3</b>	7	---
Particles >38µm	ASTM D7647 >4	<b>1</b>	0	---
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c) >--/16/13	<b>19/15/10</b>	18/16/12	---

# OIL ANALYSIS REPORT

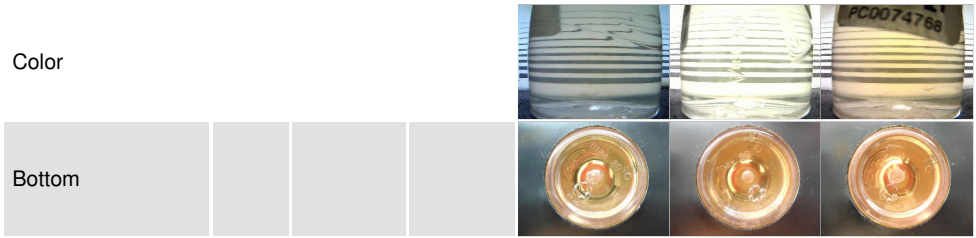


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	<b>0.60</b>	0.64	---

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*	>0.05	<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)	47.9	<b>45.7</b>	46.5	47.0
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	<b>8.5</b>	9.4	9.3
Viscosity Index (VI)	Scale	ASTM D2270*	192	<b>165</b>	191	185

## SAMPLE IMAGES



Color

Bottom



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0077030  
**Lab Number** : 02597544  
**Unique Number** : 5682624  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**Dryden Fibre**  
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 CA P8N 2Z7  
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 adebukola.adekanye@domtar.com  
 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.