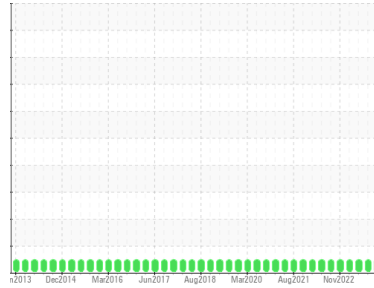


# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**TEAM 3**  
Machine Id  
**166122**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 46 (10 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>PC0069856</b>	PC0074793	PC0070261
Sample Date	Client Info	<b>20 Oct 2023</b>	08 Aug 2023	24 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

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >20	<b>4</b>	4	5
Chromium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185(m) >20	<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) >20	<b>0</b>	<1	0
Lead	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D5185(m) >20	<b>3</b>	3	3
Tin	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Antimony	ppm ASTM D5185(m)	<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>	<1	<1

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<b>&lt;1</b>	0	0
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) 0	<b>0</b>	0	<1
Magnesium	ppm ASTM D5185(m) 0	<b>8</b>	10	10
Calcium	ppm ASTM D5185(m) 50	<b>30</b>	29	29
Phosphorus	ppm ASTM D5185(m) 330	<b>313</b>	335	343
Zinc	ppm ASTM D5185(m) 430	<b>383</b>	382	365
Sulfur	ppm ASTM D5185(m) 760	<b>1688</b>	1779	1858
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

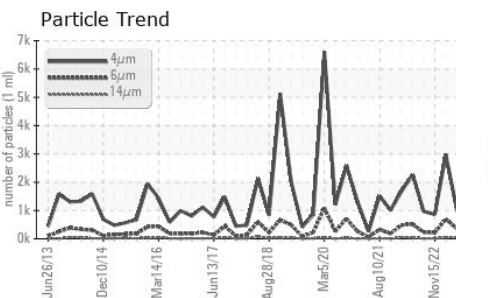
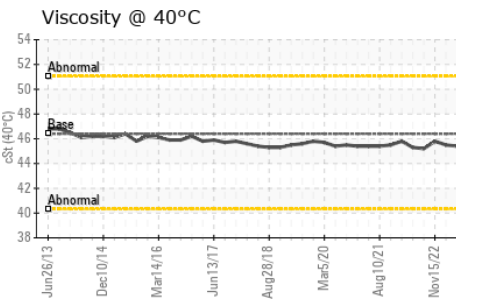
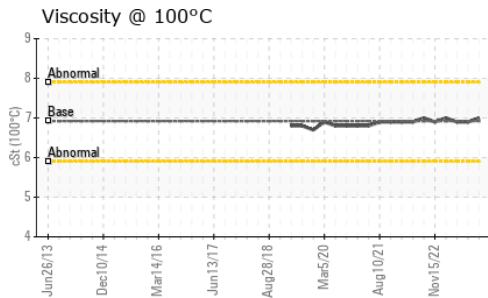
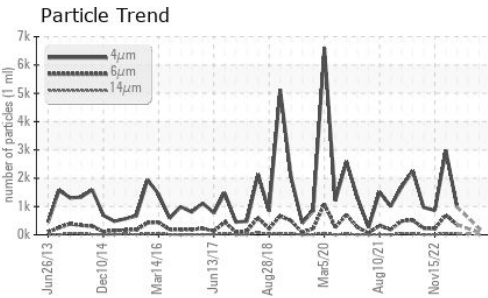
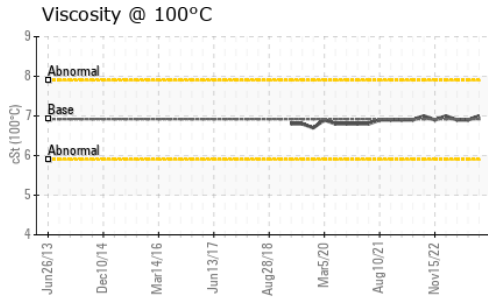
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >15	<b>1</b>	1	2
Sodium	ppm ASTM D5185(m)	<b>7</b>	7	8
Potassium	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1

## FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>235</b>	---	981
Particles >6µm	ASTM D7647 >1300	<b>83</b>	---	359
Particles >14µm	ASTM D7647 >160	<b>9</b>	---	47
Particles >21µm	ASTM D7647 >40	<b>3</b>	---	17
Particles >38µm	ASTM D7647 >10	<b>1</b>	---	1
Particles >71µm	ASTM D7647 >3	<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c) >--/17/14	<b>15/14/10</b>	---	17/16/13

## FLUID DEGRADATION

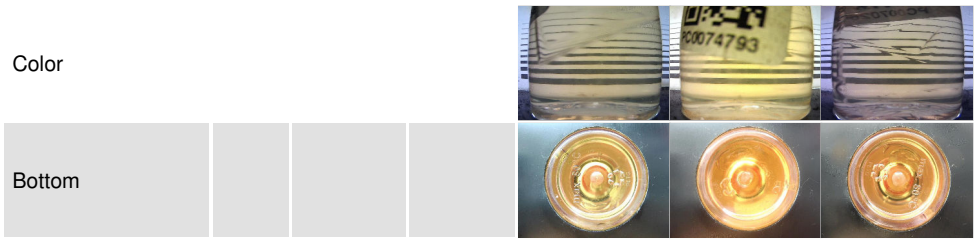
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 0.70	<b>0.34</b>	---	0.40



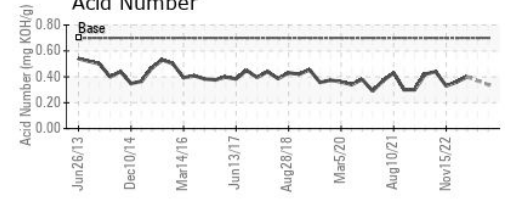
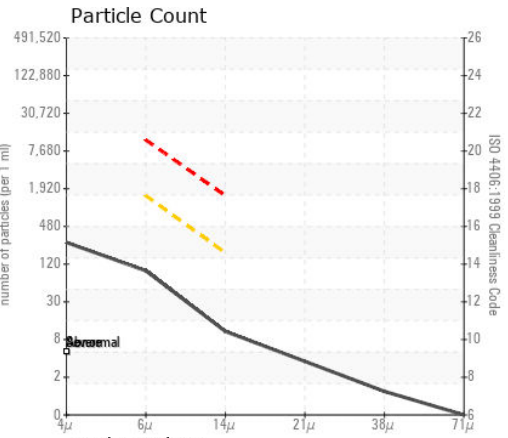
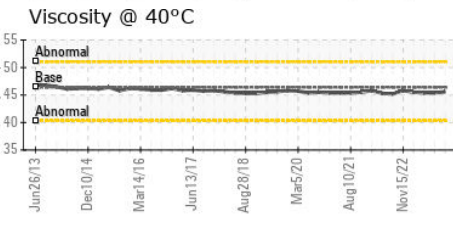
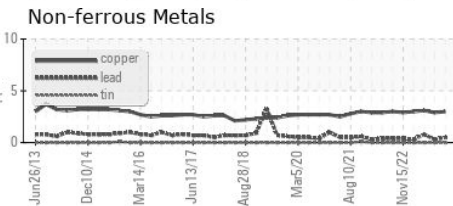
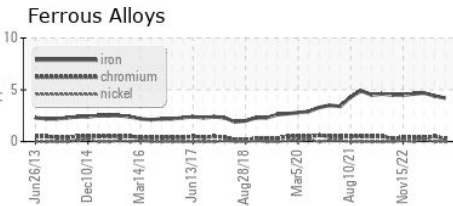
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>45.6</b>	45.4	45.4
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	<b>7</b>	6.9	6.9
Viscosity Index (VI)	Scale	ASTM D2270*	104	<b>110</b>	107	107

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069856 **Received** : 08 Nov 2023  
**Lab Number** : **02595000** **Diagnosed** : 09 Nov 2023  
**Unique Number** : 5672079 **Diagnostician** : Wes Davis  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**Dryden Fibre**  
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 AADEKANYE@DRYDENFIBRE.CA  
 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.