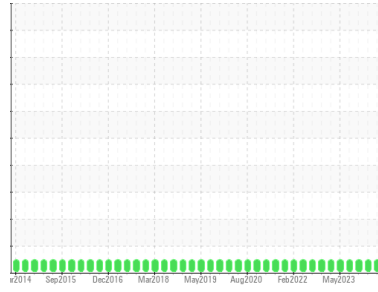


# OIL ANALYSIS REPORT

Area  
**TEAM 3**  
Machine Id  
**166170**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 46 (150 LTR)**

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 condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PC0078786</b>	PC0076945	PC0069853
Sample Date	Client Info	<b>29 May 2024</b>	14 Jan 2024	20 Oct 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) >20	<b>&lt;1</b>	1	1
Chromium	ppm ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm ASTM D5185(m) >20	<b>0</b>	<1	<1
Titanium	ppm ASTM D5185(m)	<b>&lt;1</b>	0	0
Silver	ppm ASTM D5185(m)	<b>0</b>	0	<1
Aluminum	ppm ASTM D5185(m) >20	<b>0</b>	<1	0
Lead	ppm ASTM D5185(m) >20	<b>0</b>	0	<1
Copper	ppm ASTM D5185(m) >20	<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	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

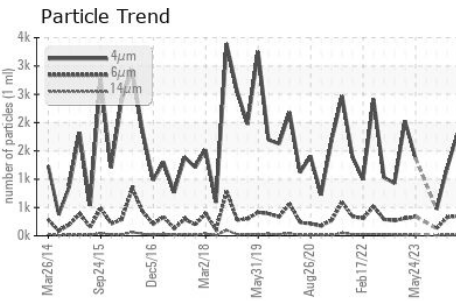
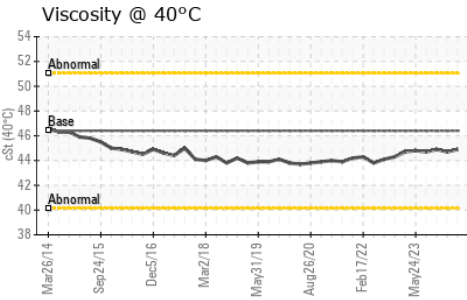
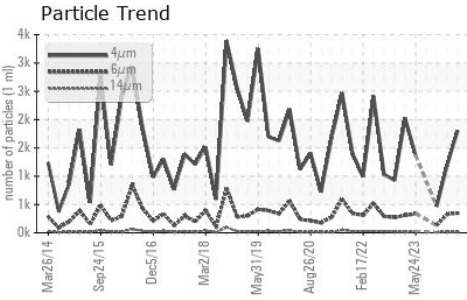
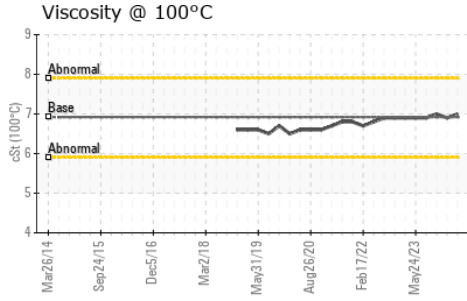
method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 0	<b>&lt;1</b>	<1	<1
Barium	ppm ASTM D5185(m) 0	<b>0</b>	0	<1
Molybdenum	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm ASTM D5185(m) 0	<b>4</b>	4	5
Calcium	ppm ASTM D5185(m) 50	<b>91</b>	95	97
Phosphorus	ppm ASTM D5185(m) 330	<b>338</b>	340	336
Zinc	ppm ASTM D5185(m) 430	<b>434</b>	429	441
Sulfur	ppm ASTM D5185(m) 760	<b>1457</b>	1630	1571
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>0</b>	<1	1
Sodium	ppm ASTM D5185(m)	<b>8</b>	9	10
Potassium	ppm ASTM D5185(m) >20	<b>&lt;1</b>	<1	0

## FLUID CLEANLINESS

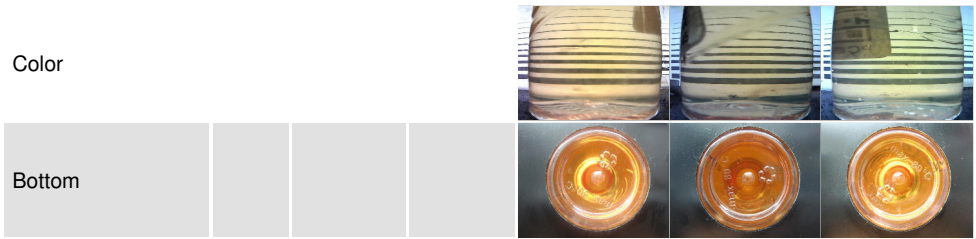
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	<b>1801</b>	1187	466
Particles >6µm	ASTM D7647 >1300	<b>347</b>	326	131
Particles >14µm	ASTM D7647 >160	<b>13</b>	13	10
Particles >21µm	ASTM D7647 >40	<b>5</b>	3	2
Particles >38µm	ASTM D7647 >10	<b>1</b>	0	0
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/14	<b>18/16/11</b>	17/16/11	16/14/10



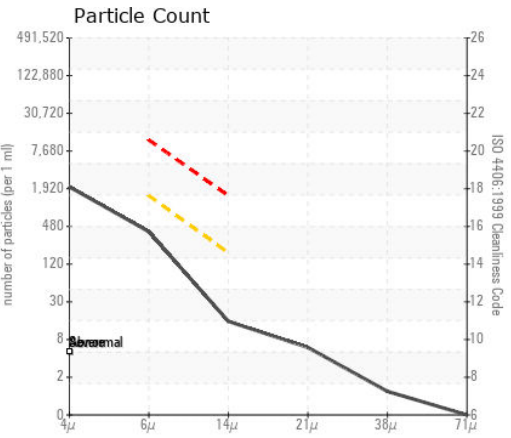
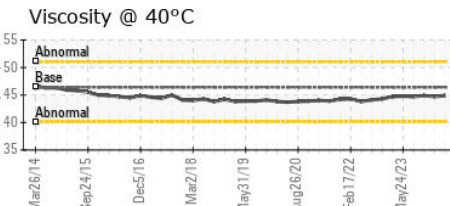
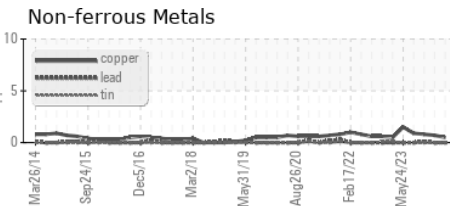
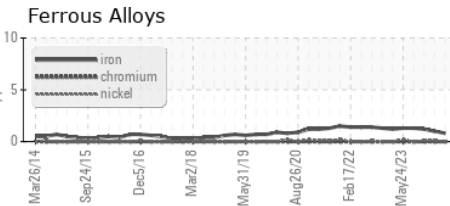
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	44.7	44.9
Visc @ 100°C	cSt	ASTM D7279(m)	6.92	6.9	7
Viscosity Index (VI)	Scale	ASTM D2270*	104	110	113

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.** : PC0078786 **Received** : 07 Jun 2024  
**Lab Number** : 02640527 **Tested** : 07 Jun 2024  
**Unique Number** : 5789689 **Diagnosed** : 07 Jun 2024 - Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

**Dryden Fibre**  
 Box 3001, 1 Duke Street  
 Dryden, ON  
 CA P8N 2Z7  
 Contact: Adebukola Adekanye  
 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.