



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Area  
**Press 3**  
Machine Id  
**PRESS #3 STRETCHER**  
Component  
**Pump Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX AW 46 (700 LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0828653</b>	WC0796116	WC0748834
Sample Date		Client Info		<b>06 Nov 2023</b>	16 May 2023	03 Oct 2022
Machine Age	mths	Client Info		<b>119</b>	119	119
Oil Age	mths	Client Info		<b>119</b>	119	119
Filter Age	mths	Client Info		<b>119</b>	119	119
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>30	<b>4</b>	4	4
Chromium	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	0	0
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>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>25	<b>16</b>	12	8
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

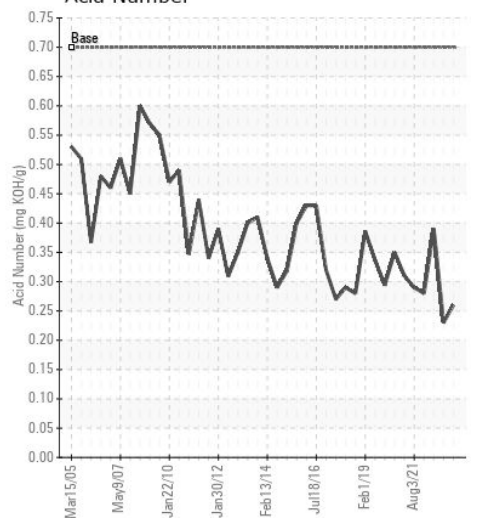
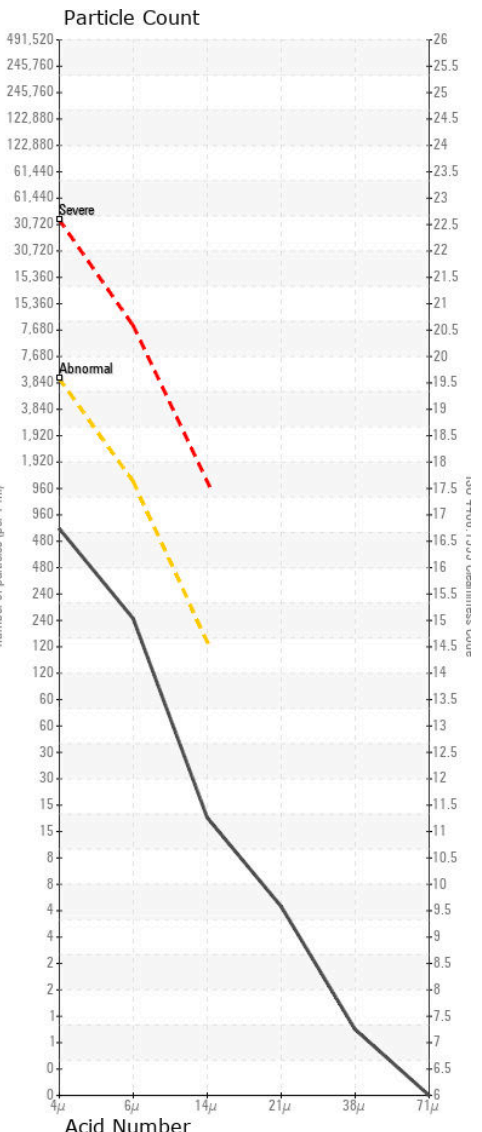
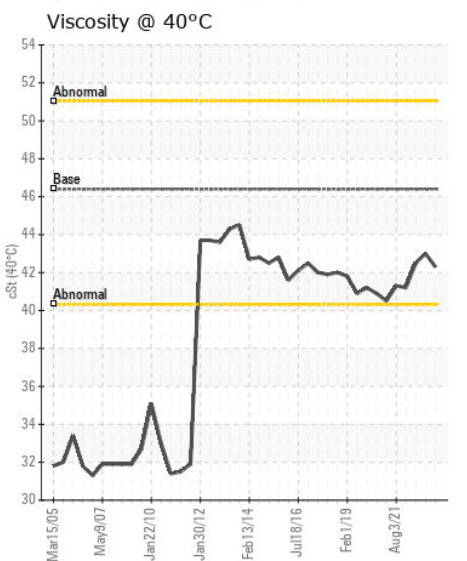
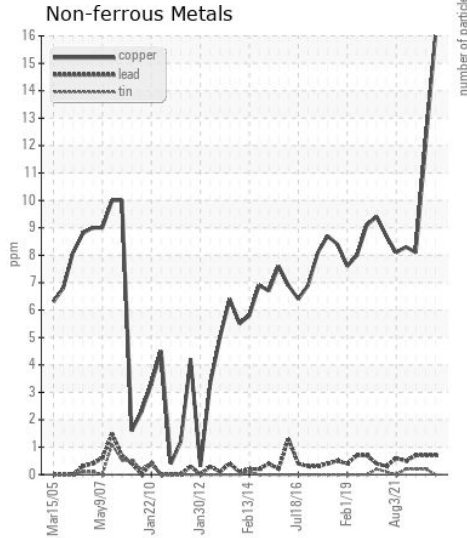
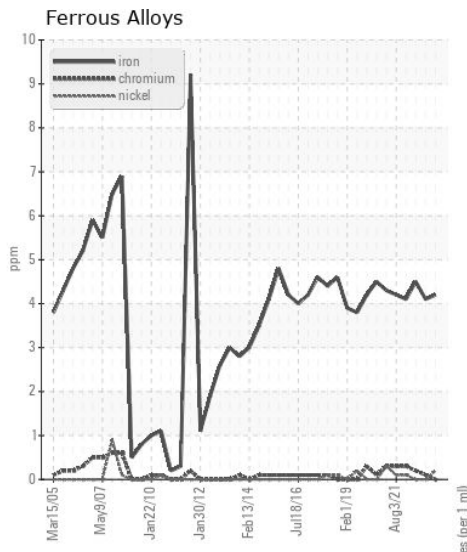
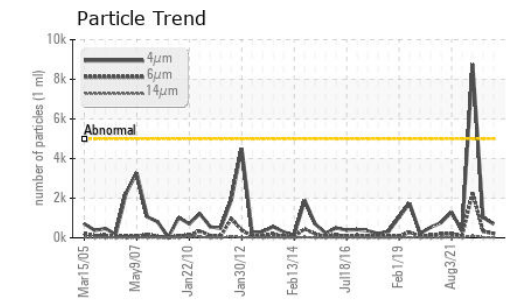
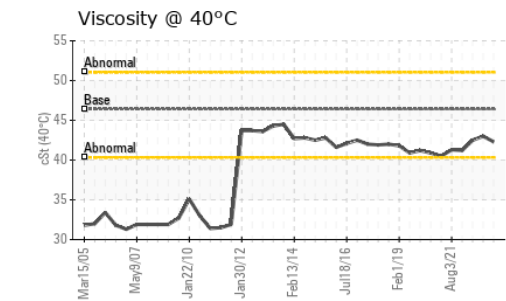
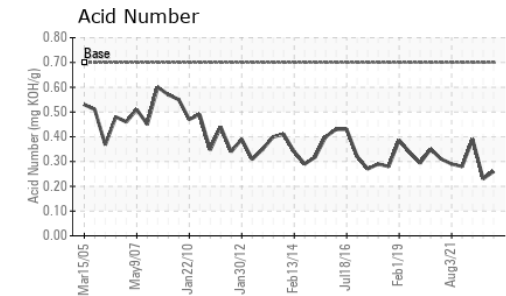
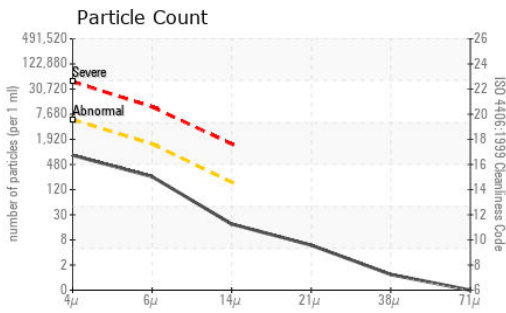
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>25	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>703</b>	1021	8764
Particles >6µm		ASTM D7647	>1300	<b>216</b>	327	2272
Particles >14µm		ASTM D7647	>160	<b>16</b>	26	89
Particles >21µm		ASTM D7647	>40	<b>5</b>	7	27
Particles >38µm		ASTM D7647	>10	<b>1</b>	0	1
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>17/15/11</b>	17/16/12	20/18/14
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
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

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	1	2
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>4</b>	4	4
Calcium	ppm	ASTM D5185(m)	50	<b>91</b>	98	97
Phosphorus	ppm	ASTM D5185(m)	330	<b>302</b>	344	343
Zinc	ppm	ASTM D5185(m)	430	<b>386</b>	380	375
Sulfur	ppm	ASTM D5185(m)	760	<b>727</b>	794	772
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	<b>0.26</b>	0.23	0.39
Visc @ 40°C	cSt	ASTM D7279(m)	46.4	<b>42.3</b>	43.0	42.5



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0828653  
**Lab Number** : 02595344  
**Unique Number** : 5672423  
**Test Package** : IND 2  
**Received** : 09 Nov 2023  
**Tested** : 10 Nov 2023  
**Diagnosed** : 10 Nov 2023 - Wes Davis

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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.