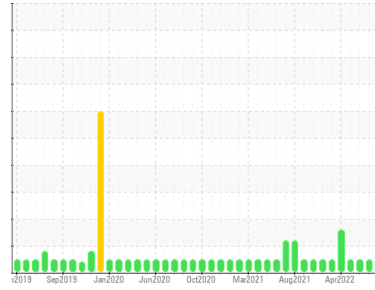


Area  
**Framo**  
Machine Id  
**HPU VRC Hyd. Power (S/N Sample Tag IH-65201-S1)**  
Component  
**Hydraulic System**  
Fluid  
**PETRO CANADA HYDREX MV ARCTIC 15 (310 LTR)**



**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>PC0061602</b>	PC	PC0052469
Sample Date	Client Info	<b>29 Aug 2023</b>	05 Aug 2023	20 Apr 2023
Machine Age	hrs	Client Info	<b>0</b>	0
Oil Age	hrs	Client Info	<b>0</b>	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

PQ	ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	<1
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0

**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	0
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>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)	50	<b>28</b>	27	29
Phosphorus	ppm	ASTM D5185(m)	330	<b>360</b>	354	349
Zinc	ppm	ASTM D5185(m)	430	<b>411</b>	406	392
Sulfur	ppm	ASTM D5185(m)	760	<b>786</b>	785	783
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

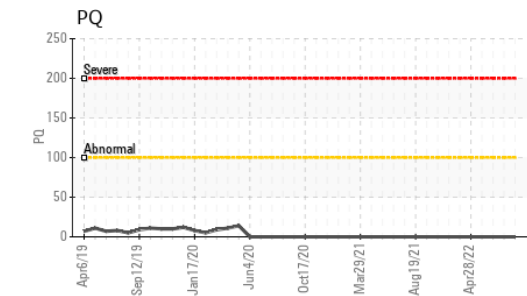
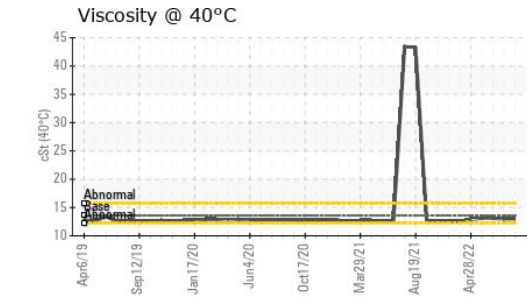
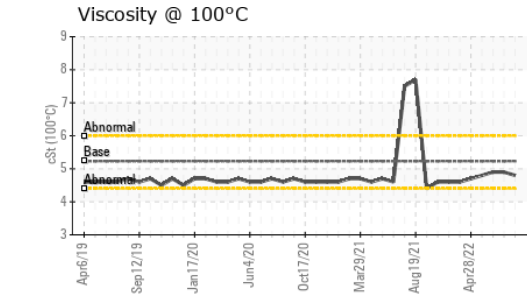
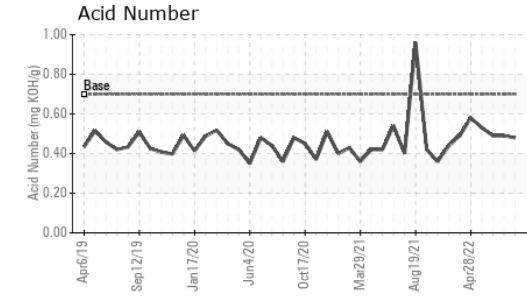
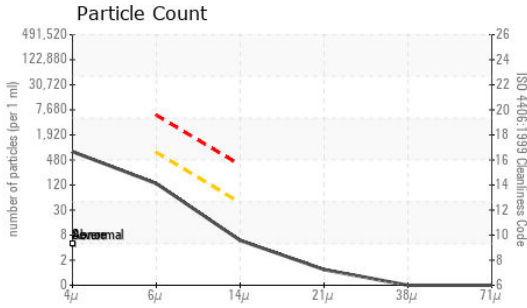
**CONTAMINANTS** method limit/base current history1 history2

Silicon	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
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>668</b>	710	2123
Particles >6µm	ASTM D7647	>640		<b>115</b>	132	308
Particles >14µm	ASTM D7647	>40		<b>5</b>	6	12
Particles >21µm	ASTM D7647	>10		<b>1</b>	2	2
Particles >38µm	ASTM D7647	>3		<b>0</b>	0	0
Particles >71µm	ASTM D7647	>3		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/16/12		<b>17/14/10</b>	17/14/10	18/15/11

# OIL ANALYSIS REPORT

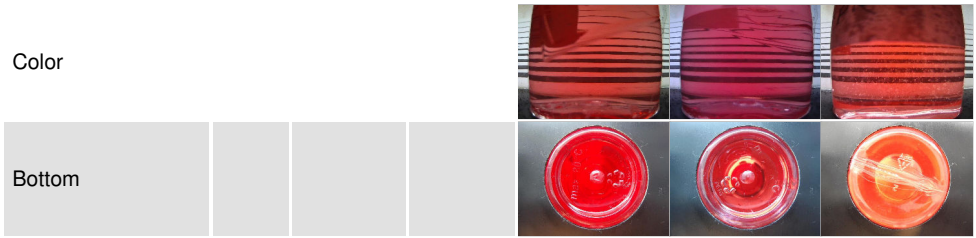


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	<b>0.48</b>	0.49	0.49

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)	13.6	<b>13.0</b>	13.0	13.1
Visc @ 100°C	cSt	ASTM D7279(m)	5.23	<b>4.8</b>	4.9	4.9
Viscosity Index (VI)	Scale	ASTM D2270*	394	<b>359</b>	374	370

## SAMPLE IMAGES



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0061602 **Received** : 13 Sep 2023  
**Lab Number** : **02582130** **Diagnosed** : 14 Sep 2023  
**Unique Number** : 5643195 **Diagnostician** : Kevin Marson  
**Test Package** : MAR 2 ( Additional Tests: KV100, PQ, VI )

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.

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