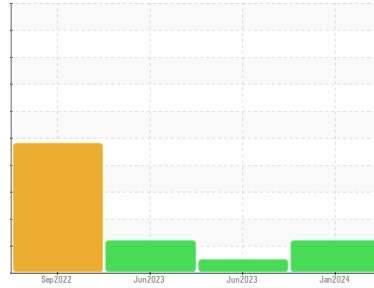


Machine Id  
**500215**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL (50 LTR)**



## DIAGNOSIS

### Recommendation

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation.

### Wear

Les taux d'usure de tous les composants sont normaux.

### Contamination

Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile.

### Fluid Condition

Le AN est acceptable pour ce fluide. l'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PC0069632</b>	PC0061770	PC0061777
Sample Date	Client Info			<b>29 Jan 2024</b>	28 Jun 2023	17 Jun 2023
Machine Age	hrs	Client Info		<b>8912</b>	13160	12664
Oil Age	hrs	Client Info		<b>8912</b>	13160	4808
Oil Changed	Client Info			<b>Not Chngd</b>	Filtered	Not Chngd
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.05	<b>NEG</b>	NEG	NEG

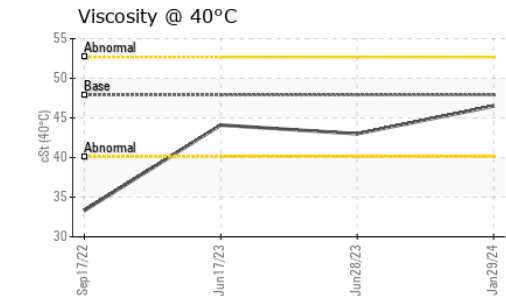
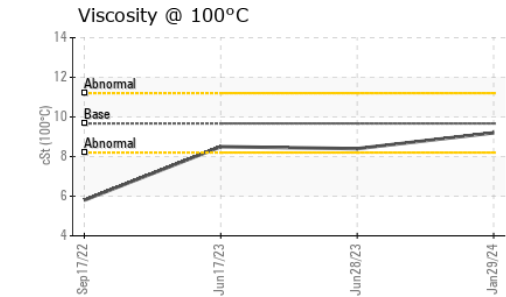
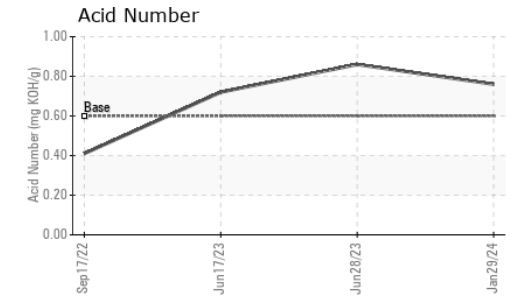
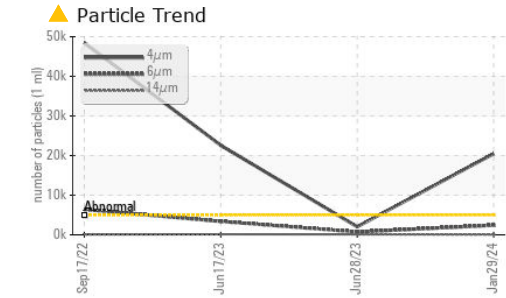
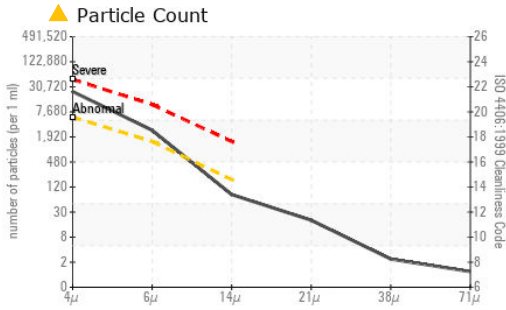
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Chromium	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>20	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185(m)	>20	<b>2</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>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
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)	1	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	5	<1
Calcium	ppm	ASTM D5185(m)	100	<b>99</b>	85	96
Phosphorus	ppm	ASTM D5185(m)	670	<b>641</b>	577	602
Zinc	ppm	ASTM D5185(m)	850	<b>804</b>	724	740
Sulfur	ppm	ASTM D5185(m)	1600	<b>1553</b>	1398	1417
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>13</b>	5	3
Sodium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<1

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>▲ 20470</b>	2039	<b>▲ 22589</b>
Particles >6µm		ASTM D7647	>1300	<b>▲ 2427</b>	726	<b>▲ 3388</b>
Particles >14µm		ASTM D7647	>160	<b>70</b>	113	141
Particles >21µm		ASTM D7647	>40	<b>17</b>	32	30
Particles >38µm		ASTM D7647	>10	<b>2</b>	1	2
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 22/18/13</b>	18/17/14	<b>▲ 22/19/14</b>

# OIL ANALYSIS REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0069632  
**Lab Number** : **02612824**  
**Unique Number** : 5721919  
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

**Received** : 01 Feb 2024  
**Tested** : 02 Feb 2024  
**Diagnosed** : 02 Feb 2024 - Wes Davis

**Umano Medical**  
 230 Blvd Nilus Leclerc  
 L'Islet, QC  
 CA G0R 2C0  
 Contact: Samuel Pelletier  
 samuel.pelletier@umanomedical.com  
 T: (418)247-3986  
 F: x:

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.

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.60	<b>0.76</b>	0.86	0.72

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>LIGHT</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>46.5</b>	43.0	44.1
Visc @ 100°C	cSt	ASTM D7279(m)	9.67	<b>9.2</b>	8.4	8.5
Viscosity Index (VI)	Scale	ASTM D2270*	192	<b>184</b>	175	173

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						