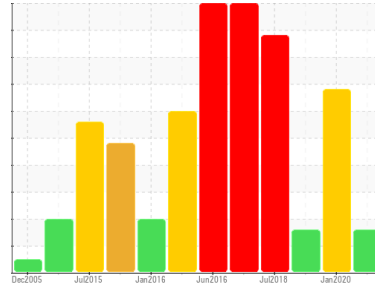


Area  
**Gas Compression**  
Machine Id  
**Pump LP Condensate (A) - Lube System (S/N Sample Tag PA-23009A-S1)**  
Component  
**Pump**  
Fluid  
**PETRO CANADA HYDREX MV 36 (--- LTR)**



**DIAGNOSIS**

**Recommendation**

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

**Wear**

All component wear rates are normal.

**Contamination**

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code.

**Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

**SAMPLE INFORMATION** method limit/base current history1 history2

Sample Number	Client Info	<b>PC</b>	PC0016451	PC
Sample Date	Client Info	<b>29 Jan 2024</b>	03 Jan 2020	18 Dec 2019
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>ABNORMAL</b>	SEVERE	ABNORMAL

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

Water	WC Method	>.1	<b>NEG</b>	NEG	NEG
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**WEAR METALS** method limit/base current history1 history2

PQ	ASTM D8184*		<b>0</b>	12	8
Iron	ppm	ASTM D5185(m)	>75	<b>2</b>	15
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	<1
Nickel	ppm	ASTM D5185(m)		<b>&lt;1</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)	>5	<b>&lt;1</b>	<1
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Copper	ppm	ASTM D5185(m)	>15	<b>1</b>	1
Tin	ppm	ASTM D5185(m)		<b>0</b>	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	<1
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

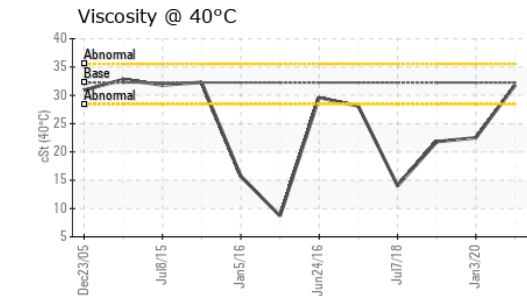
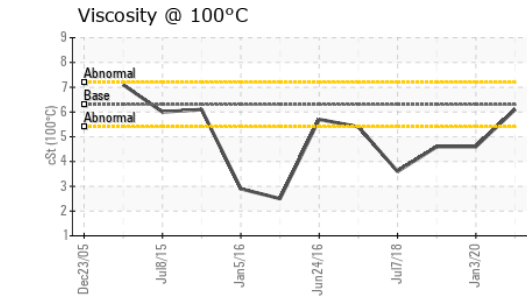
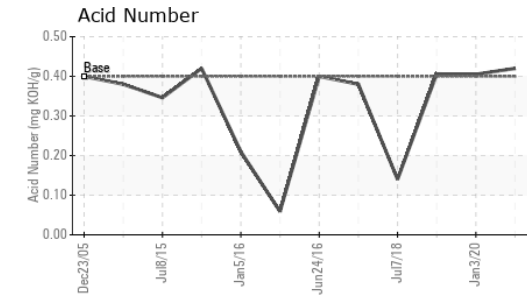
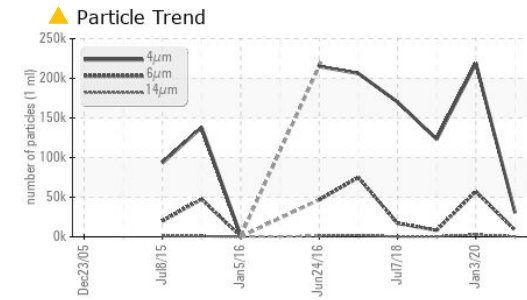
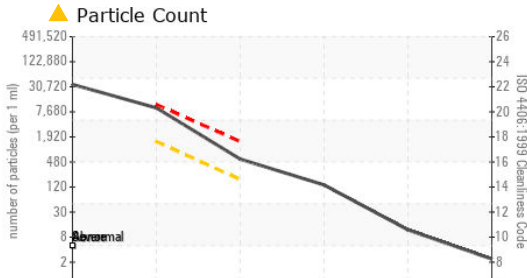
**ADDITIVES** method limit/base current history1 history2

Boron	ppm	ASTM D5185(m)	0	<b>0</b>	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	0
Manganese	ppm	ASTM D5185(m)	1	<b>0</b>	<1
Magnesium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1
Calcium	ppm	ASTM D5185(m)	135	<b>32</b>	36
Phosphorus	ppm	ASTM D5185(m)	236	<b>312</b>	315
Zinc	ppm	ASTM D5185(m)	317	<b>369</b>	321
Sulfur	ppm	ASTM D5185(m)	561	<b>718</b>	603
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1

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

Silicon	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	6
Sodium	ppm	ASTM D5185(m)		<b>2</b>	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1

# OIL ANALYSIS REPORT



FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647			<b>30317</b>	218891	122929
Particles >6µm	ASTM D7647	>1300		<b>▲ 8334</b>	● 57071	▲ 8160
Particles >14µm	ASTM D7647	>160		<b>▲ 494</b>	● 2603	▲ 466
Particles >21µm	ASTM D7647	>40		<b>▲ 119</b>	● 925	▲ 146
Particles >38µm	ASTM D7647	>10		<b>10</b>	▲ 37	7
Particles >71µm	ASTM D7647	>3		<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>--/17/14		<b>▲ 22/20/16</b>	● 25/23/19	▲ 24/20/16

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	<b>0.42</b>	0.405	0.406

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>VLITE</b>	LIGHT	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*	>.1	<b>NEG</b>	.2%	.2%
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	32.25	<b>31.8</b>	▲ 22.5	▲ 21.8
Visc @ 100°C	cSt	ASTM D7279(m)	6.3	<b>6.1</b>	4.6	4.6
Viscosity Index (VI)	Scale	ASTM D2270*	148	<b>142</b>	121	129

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : **02612834** **Received** : 01 Feb 2024  
**Unique Number** : 5721929 **Diagnosed** : 03 Feb 2024  
**Test Package** : MAR 2 ( Additional Tests: KV100, PQ, PrtCount, VI ) **Diagnostician** : Bill Quesnel

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Strret  
 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshhynes@suncor.com  
 T: (709)778-3575  
 F: (709)724-2835

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.