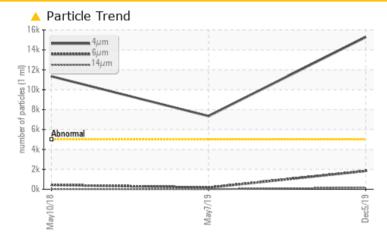


## CAMPHPU2

#### Component Hydraulic System Fluid PETRO CANADA HYDREX MV 36 (220 LTR)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST I	RESULTS				
Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Particles >4µm	ASTM D7647	>5000	<u> </u>	<b>A</b> 7347	<b>1</b> 1344
Particles >6µm	ASTM D7647	>1300	🔺 1839	175	436
Particles >14µm	ASTM D7647	>160	🔺 166	9	13
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>A</b> 21/18/15	🔺 20/15/10	🔺 21/16/11

Customer Id: PET412PET Sample No.: WC0373486 Lab Number: 02325527 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

*To change component or sample information:* Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Resample	MISSED	Dec 24 2020	?	We recommend an early resample to monitor this condition.

### HISTORICAL DIAGNOSIS



### 07 May 2019 Diag: Wes Davis

We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 10 May 2018 Diag: Kevin Marson



### The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Particles >4 $\mu$ m are abnormal. The AN level is acceptable for this fluid. The condition of the sample is suitable for further service.





### **OIL ANALYSIS REPORT**

Sample Rating Trend

# ISO SAMPLE INFORMATION method history history1

**CAMPHPU2** Component

**Hydraulic System** PETRO CANADA HYDREX MV 36 (220 LTR)

### DIAGNOSIS

Machine Id

### Recommendation

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Particles >4µm are abnormally high. Particles >6µm are notably high. Particles >14 $\mu$ m are notably high.

### Fluid Condition

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

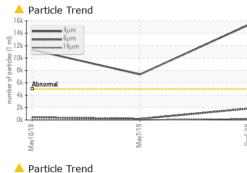
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0373486	WC119390	WC984132
Sample Date		Client Info		05 Dec 2019	07 May 2019	10 May 2018
Machine Age	hrs	Client Info		189711	187991	0
Oil Age	hrs	Client Info		0	0	132716
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	<1	1	1
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	<1
Lead	ppm	ASTM D5185(m)	>20	0	<1	0
Copper	ppm	ASTM D5185(m)		1	1	1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)	-	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<1	0	<1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<1	<1	0
Manganese	ppm	ASTM D5185(m)	1	0	<1	0
Magnesium	ppm	ASTM D5185(m)	0	<1	1	<1
Calcium	ppm	ASTM D5185(m)	135	61	65	72
Phosphorus	ppm	ASTM D5185(m)	236	312	302	310
Zinc	ppm	ASTM D5185(m)	317	406	392	414
Sulfur	ppm	ASTM D5185(m)	561	711	711	718
Lithium	ppm	ASTM D5185(m)		<1	0	<1
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	0	<1	<1
Sodium	ppm	ASTM D5185(m)		0	0	0
Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>15282</b>	▲ 7347	▲ 11344
Particles >6µm		ASTM D7647		<u> </u>	175	436
Particles >14µm		ASTM D7647		<u> </u>	9	13
Particles >21µm		ASTM D7647	>40	43	3	3
Particles >38µm		ASTM D7647		1	0	0
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/18/15	▲ 20/15/10	▲ 21/16/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.40	0.395	0.279	0.42
(:55:39) Bev: 1	B) Bev: 1 Contact/Location: Nelson Boss - PET412					s - PFT412PF

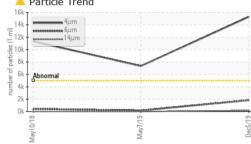
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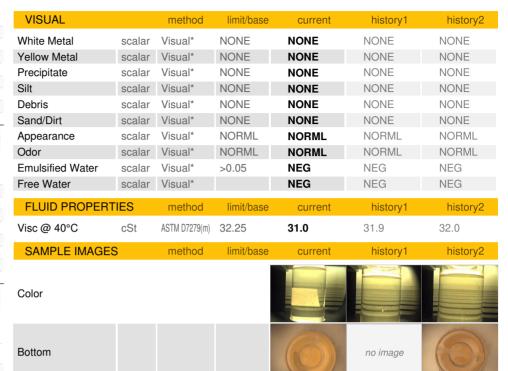
Contact/Location: Nelson Ross - PET412PET

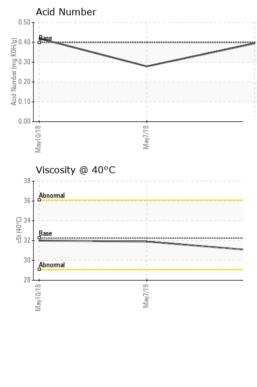


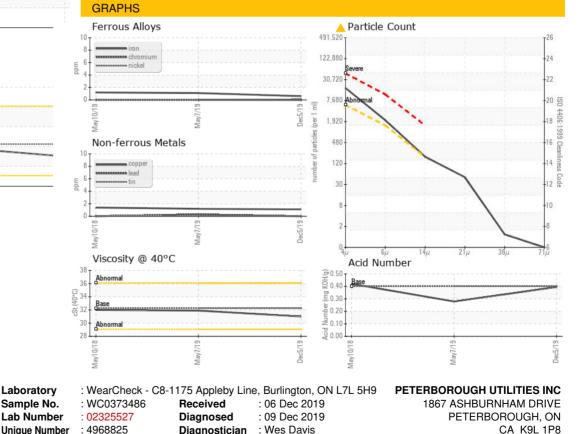
### **OIL ANALYSIS REPORT**











Accredited Laboratory Test Package : IND 2 (Additional Tests: TAN Man) 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.

CA K9L 1P8 Contact: Nelson Ross nross@pui.ca T: (705)760-6119 F: (705)748-3138

CALA

ISO 17025:2017

Laboratory

Sample No.

Lab Number