

# **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

# GENERAL ELEC L.S. PLANT 1 UNIT 1 HPU

Pump Hydraulic System

PETRO CANADA ENDURATEX EP 68 (140

### **DIAGNOSIS**

### Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

All component wear rates are normal.

### Contamination

Particles >4µm are abnormally high. Particles >6µm are notably high.

### **Fluid Condition**

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

I I UNII I	пРО					
LTR)			Jui2019	Jun <b>2</b> 021		
SAMPLE INFOR	RMATION	<b>I</b> method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age	hrs hrs	Client Info Client Info Client Info Client Info		WC0488596 22 Jun 2021 0	WC0306749 09 Jul 2019 0 8000	  
Oil Changed Sample Status		Client Info	L. 1.4	Not Changd ABNORMAL	Not Changd ABNORMAL	
CONTAMINATION Water	ON	method WC Method	limit/base >0.05	current NEG	history1 NEG	history2
WEAR METALS	<u>,                                      </u>	method	limit/base		history1	history2
Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Antimony Vanadium Beryllium Cadmium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	>20 >20 >20 >20 >20	<1 0 <1 0 <1 0 <1 1 <1 0 0 0	<1 0 0 0 0 0 0 <1 <1 0 0 0 0	
ADDITIVES Boron Barium Molybdenum	ppm ppm	Method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	limit/base 69 1	current 60 <1	history1 62 0 0	history2
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	1	0 0 2 254	<1 <1 1 262	
Zinc Sulfur Lithium	ppm ppm	. ,	3670	5 4359 <1	4 4527 0	

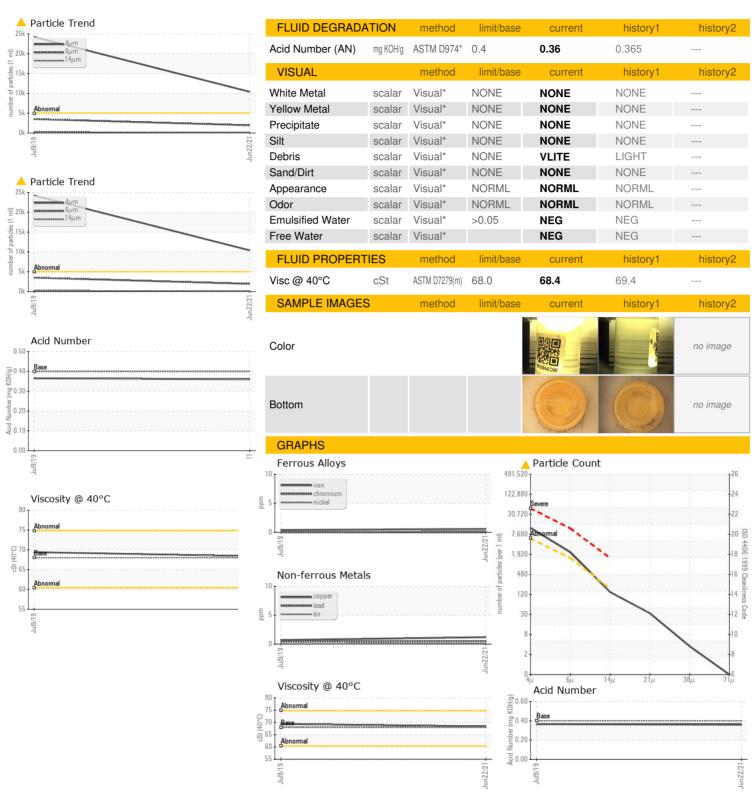
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	69	60	62	
Barium	ppm	ASTM D5185(m)	1	<1	0	
Molybdenum	ppm	ASTM D5185(m)	1	0	0	
Manganese	ppm	ASTM D5185(m)	1	0	<1	
Magnesium	ppm	ASTM D5185(m)	1	0	<1	
Calcium	ppm	ASTM D5185(m)	1	2	1	
Phosphorus	ppm	ASTM D5185(m)	246	254	262	
Zinc	ppm	ASTM D5185(m)	1	5	4	
Sulfur	ppm	ASTM D5185(m)	3670	4359	4527	
Lithium	ppm	ASTM D5185(m)		<1	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3	<1	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potoccium	nnm	ACTM DE105(m)	> 20	0	-1	

Potassium	ppm	ASTM D5185(m)	>20	0	<1	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>10392</b>	<u> </u>	
Particles >6μm		ASTM D7647	>1300	<b>1940</b>	<b>▲</b> 3499	
Particles >14μm		ASTM D7647	>160	125	<b>255</b>	
Particles >21µm		ASTM D7647	>40	29	<b>4</b> 92	
Particles >38µm		ASTM D7647	>10	3	5	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u> </u>	<u>22/19/15</u>	

Contact/Location: Nelson Ross - PET412PET



## OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package

: WC0488596 : 02429827

: 5241328 : IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 28 Jun 2021 Recieved Diagnosed : 29 Jun 2021

: Wes Davis Diagnostician

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.

PETERBOROUGH UTILITIES INC

1867 ASHBURNHAM DRIVE PETERBOROUGH, ON CA K9L 1P8

Contact: Nelson Ross nross@pui.ca T: (705)760-6119

F: (705)748-3138