

Machine Id  
**DR188**

Component  
**Hydraulic System**

Fluid  
**PETRO CANADA ENVIRON MV 46 (--- LTR)**

**DIAGNOSIS**

**Recommendation**

Resample at the next service interval to monitor. Please contact your representative for information regarding the proper sampling kits for your service. NOTE: We recommend using MOB 2 test kits, this testkit includes Particle Count to determine the ISO cleanliness of the fluid.

**Wear**

All component wear rates are normal.

**Contamination**

There is no indication of any contamination in the component(unconfirmed).

**Fluid Condition**

The condition of the oil is acceptable for the time in service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0078521</b>	PC0061580	PC0061575
Sample Date	Client Info		<b>14 Aug 2023</b>	28 Apr 2023	20 Dec 2022
Machine Age	hrs	Client Info	<b>6680</b>	6090	5429
Oil Age	hrs	Client Info	<b>0</b>	0	2250
Oil Changed	Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >20	<b>3</b>	3	3
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	0
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) >10	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m) >10	<b>2</b>	2	2
Copper	ppm	ASTM D5185(m) >75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >10	<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>&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>1</b>	1	1
Calcium	ppm	ASTM D5185(m) 0	<b>5</b>	3	3
Phosphorus	ppm	ASTM D5185(m) 650	<b>372</b>	384	365
Zinc	ppm	ASTM D5185(m) 0	<b>24</b>	22	23
Sulfur	ppm	ASTM D5185(m) 1420	<b>1660</b>	1692	1705
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

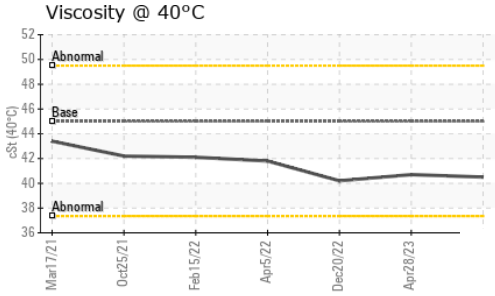
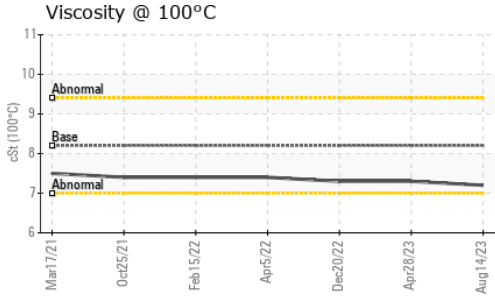
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >20	<b>2</b>	2	2
Sodium	ppm	ASTM D5185(m)	<b>5</b>	4	5
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1

**VISUAL**

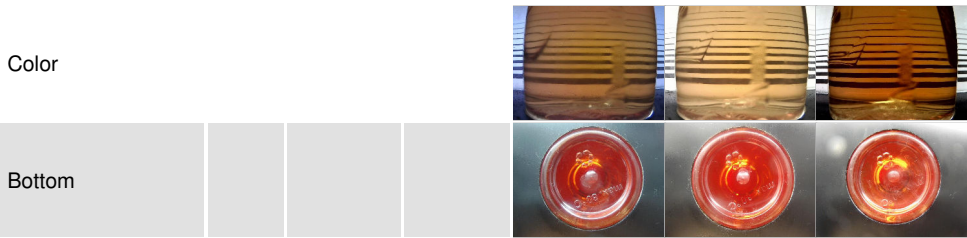
	method	limit/base	current	history1	history2
White Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual* NONE	<b>NONE</b>	NONE	NONE
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* >0.1	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

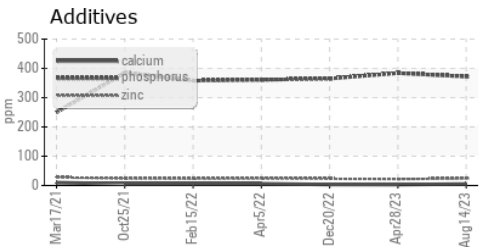
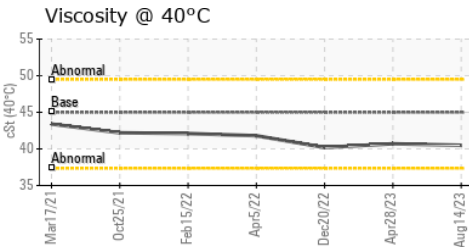
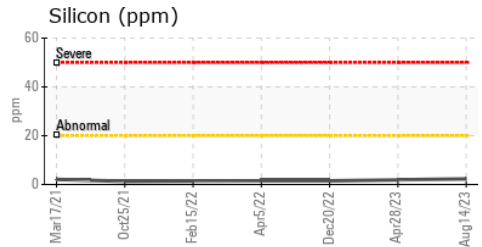
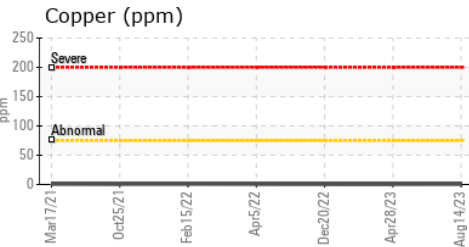
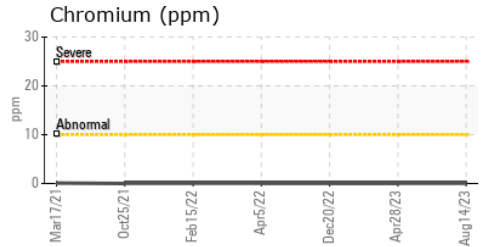
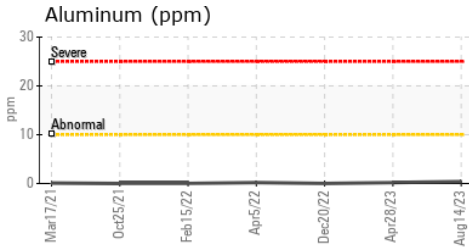
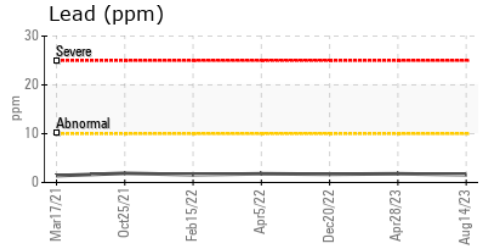
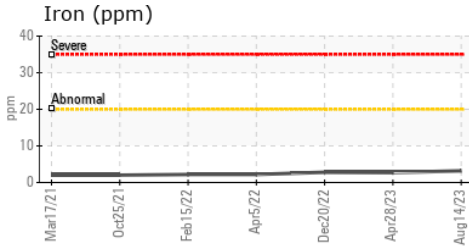


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	45.0	<b>40.5</b>	40.7	40.2
Visc @ 100°C	cSt	ASTM D7279(m)	8.2	<b>7.2</b>	7.3	7.3
Viscosity Index (VI)	Scale	ASTM D2270*	158	<b>141</b>	144	147

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GIPI) - 286 - Shoring & Foundations  
**Sample No.** : PC0078521 **Received** : 28 Aug 2023  
**Lab Number** : 02578808 **Diagnosed** : 29 Aug 2023  
**Unique Number** : 5631868 **Diagnostician** : Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KV100, 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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