

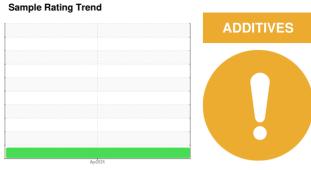
# **OIL ANALYSIS REPORT**

Machine Id **DR191** 

Component

3 Hydraulic System

PETRO CANADA ENVIRON MV 46 (--- GAL)



### DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

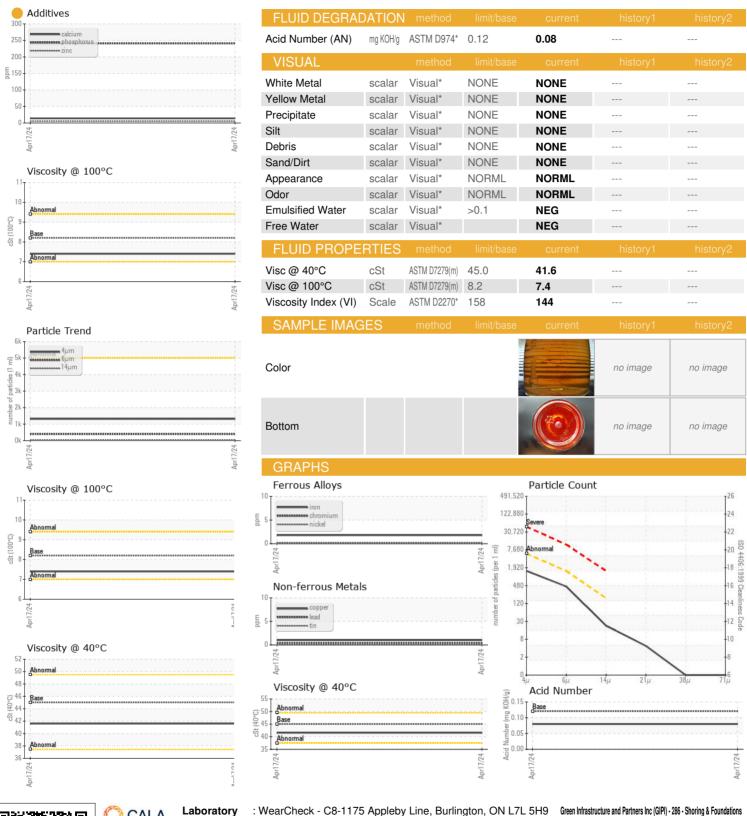
#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

)				Apr2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0080518		
Sample Date		Client Info		17 Apr 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ATTENTION		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	2		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		0		
Aluminum	ppm	ASTM D5185(m)	>10	0		
Lead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)	>75	1		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES	• •	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	3		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)	0	0		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	0	1		
Calcium	ppm	ASTM D5185(m)	0	14		
Phosphorus	ppm	ASTM D5185(m)	650	<u>241</u>		
Zinc	ppm	ASTM D5185(m)	0	6		
Sulfur	ppm	ASTM D5185(m)	1420	2276		
	PP		==			
Lithium	ppm	ASTM D5185(m)		<1		
Lithium	ppm	ASTM D5185(m)	limit/base	<1	history1	history2
CONTAMINAN	TS	method	limit/base	current	history1	history2
CONTAMINAN Silicon	TS ppm	method ASTM D5185(m)	limit/base	current 0		
CONTAMINAN Silicon Sodium	TS ppm ppm	method ASTM D5185(m) ASTM D5185(m)	>20	current 0 2		
CONTAMINAN Silicon	TS ppm	method ASTM D5185(m)		current 0		
CONTAMINAN Silicon Sodium Potassium FLUID CLEAN	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20	current 0 2		
CONTAMINAN Silicon Sodium Potassium	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>20 >20	current 0 2 <1	 	 
CONTAMINAN Silicon Sodium Potassium FLUID CLEAN	ppm ppm ppm	method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  method	>20 >20 limit/base	current 0 2 <1 current	  history1	history2
CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D7647	>20 >20 limit/base >5000	current 0 2 <1 current 1315	  history1	history2
CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >6µm	ppm ppm ppm	method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  method  ASTM D7647  ASTM D7647	>20 >20 limit/base >5000 >1300	current 0 2 <1 current 1315 394	history1	  history2 
CONTAMINAN Silicon Sodium Potassium FLUID CLEAN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	method  ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  method  ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160	current 0 2 <1 current 1315 394 19	  history1 	 history2 
CONTAMINAN Silicon Sodium Potassium FLUID CLEANI Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm	method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)  method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >20 limit/base >5000 >1300 >160 >40	current 0 2 <1 current 1315 394 19 4	  history1  	history2



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: PC0080518

Lab Number : 02630934 Unique Number : 5772087 Test Package : IND 2 (Additional Tests: KV100, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131.

Received : 23 Apr 2024

**Tested** : 24 Apr 2024 Diagnosed

: 24 Apr 2024 - Kevin Marson

Contact: Shannon Abbott sabbott@gipi.com T: (905)750-5900

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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**CA L4A 2G8**