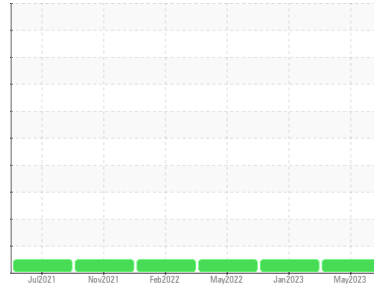


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**EBI DE COSTA RICA**  
Machine Id  
**VOLVO A40E A40E-01**  
Component  
**1 Differential**  
Fluid  
**PETRO CANADA TRAXON 80W90 (21 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0069035</b>	PC0063666	PC0055889
Sample Date	Client Info		<b>19 May 2023</b>	05 Jan 2023	19 May 2022
Machine Age	hrs	Client Info	<b>20016</b>	19456	18493
Oil Age	hrs	Client Info	<b>500</b>	500	500
Oil Changed	Client Info		<b>Changed</b>	Changed	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m) >900	<b>14</b>	<1	7
Chromium	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	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) >30	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >50	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >150	<b>&lt;1</b>	0	<1
Tin	ppm	ASTM D5185(m) >20	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
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) 243	<b>237</b>	259	253
Barium	ppm	ASTM D5185(m) 1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185(m) 2	<b>&lt;1</b>	0	2
Calcium	ppm	ASTM D5185(m) 6	<b>23</b>	0	49
Phosphorus	ppm	ASTM D5185(m) 987	<b>1018</b>	1096	1058
Zinc	ppm	ASTM D5185(m) 1	<b>12</b>	1	23
Sulfur	ppm	ASTM D5185(m) 21530	<b>17347</b>	18363	18444
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

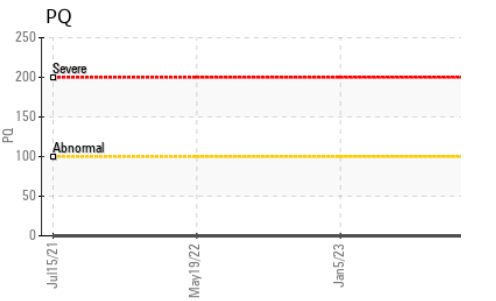
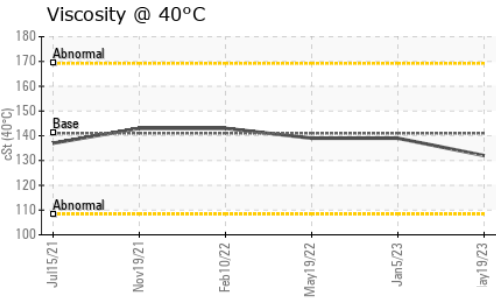
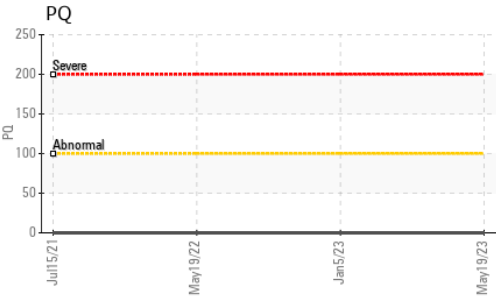
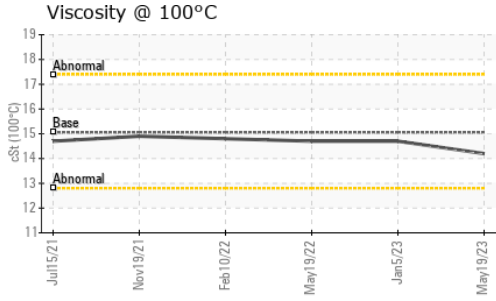
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >50	<b>4</b>	6	6
Sodium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Potassium	ppm	ASTM D5185(m) >20	<b>4</b>	0	3

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 1.9	<b>1.24</b>	1.52	1.34

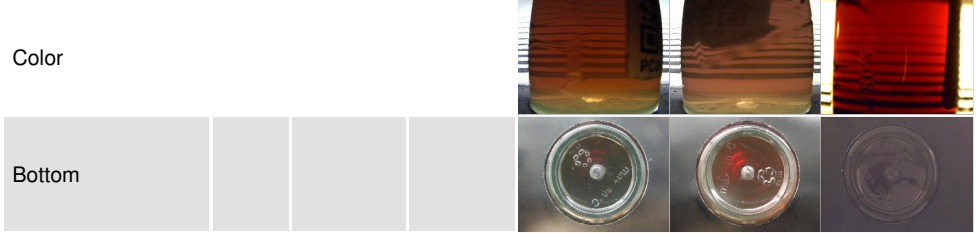
# OIL ANALYSIS REPORT



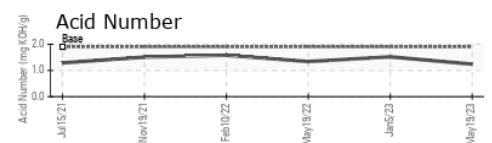
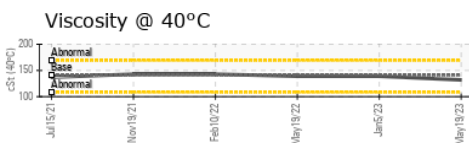
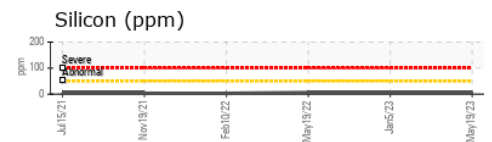
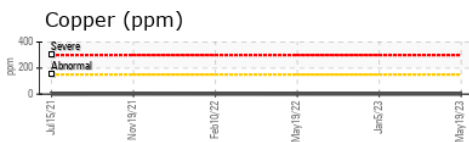
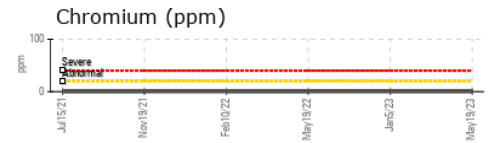
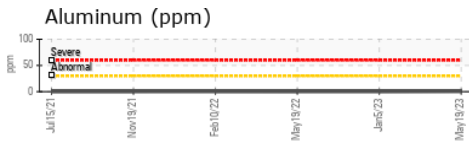
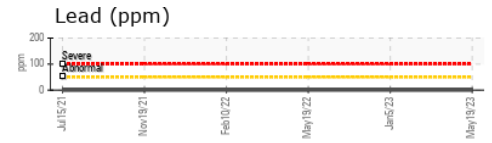
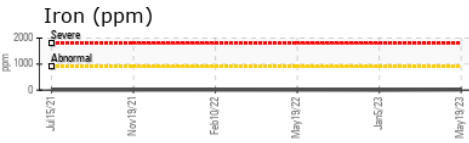
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	141.0	139	139
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.7	14.7
Viscosity Index (VI)	Scale	ASTM D2270*	108	105	105

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



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**  
**Sample No.** : PC0069035 **Received** : 06 Jun 2023  
**Lab Number** : 02562321 **Diagnosed** : 07 Jun 2023  
**Unique Number** : 5591362 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, 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.

Contiguo FANAL, frente a la Autopista Bernardo Soto  
 Grecia, A  
 CR  
 Contact: Erick Bogantes  
 cotizaciones@lubricantescanada.com  
 T: 1(115)062-1598  
 F: 1(115)062-2870