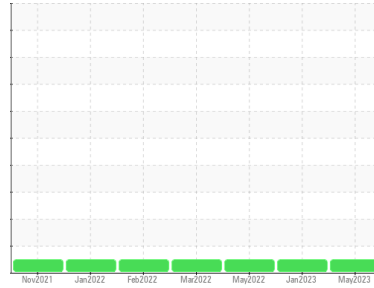


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
EBI DE COSTA RICA
Machine Id
VOLVO A40E A40E-01
Component
3 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	PC0069036	PC0063667	PC0055189
Sample Date	Client Info	19 May 2023	05 Jan 2023	19 May 2022
Machine Age	hrs Client Info	20016	19456	18493
Oil Age	hrs Client Info	500	500	500
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	0	0	5
Iron	ppm ASTM D5185(m) >900	10	18	22
Chromium	ppm ASTM D5185(m) >20	0	0	<1
Nickel	ppm ASTM D5185(m) >10	<1	<1	<1
Titanium	ppm ASTM D5185(m)	0	<1	0
Silver	ppm ASTM D5185(m)	0	0	0
Aluminum	ppm ASTM D5185(m) >30	<1	5	<1
Lead	ppm ASTM D5185(m) >50	0	0	0
Copper	ppm ASTM D5185(m) >150	<1	0	<1
Tin	ppm ASTM D5185(m) >20	0	0	<1
Antimony	ppm ASTM D5185(m) >5	0	<1	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 243	242	249	254
Barium	ppm ASTM D5185(m) 1	0	0	0
Molybdenum	ppm ASTM D5185(m)	0	0	<1
Manganese	ppm ASTM D5185(m)	<1	<1	<1
Magnesium	ppm ASTM D5185(m) 2	<1	1	2
Calcium	ppm ASTM D5185(m) 6	0	4	49
Phosphorus	ppm ASTM D5185(m) 987	1030	1058	1059
Zinc	ppm ASTM D5185(m) 1	2	3	23
Sulfur	ppm ASTM D5185(m) 21530	17517	18008	18137
Lithium	ppm ASTM D5185(m)	<1	<1	<1

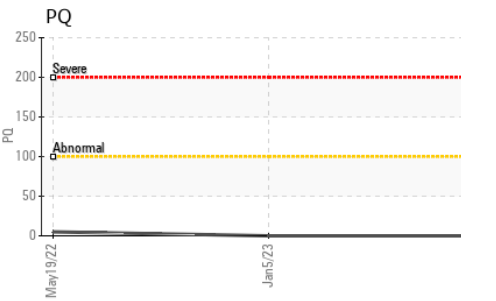
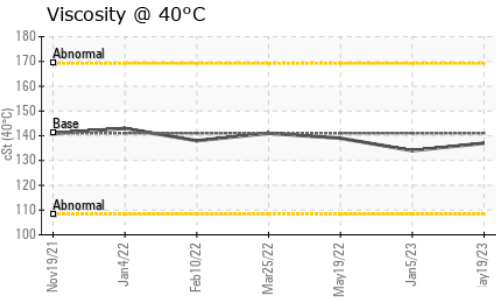
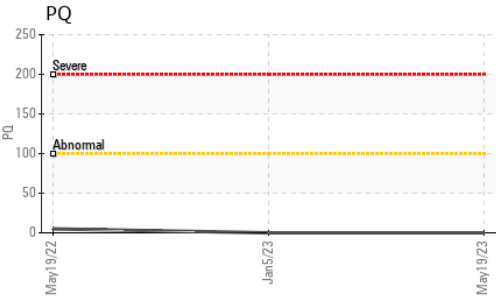
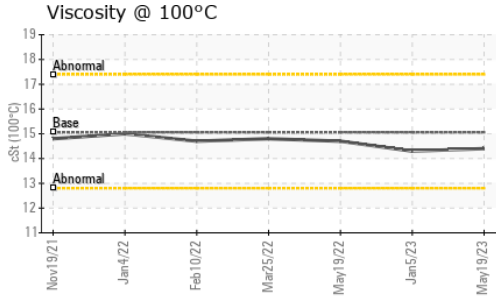
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >50	10	16	7
Sodium	ppm ASTM D5185(m)	<1	<1	<1
Potassium	ppm ASTM D5185(m) >20	1	2	2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974* 1.9	1.33	1.48	1.35

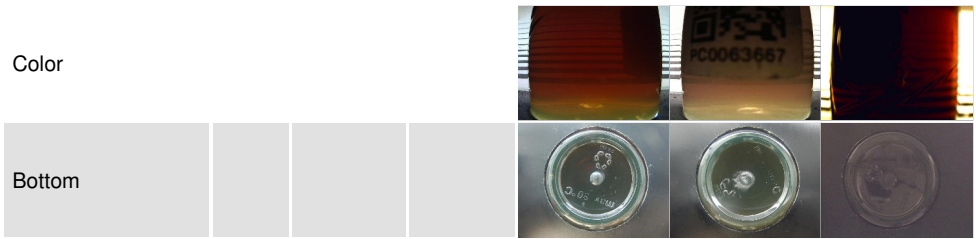
OIL ANALYSIS REPORT



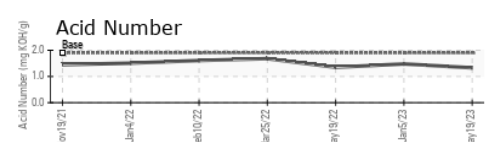
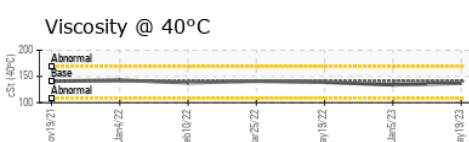
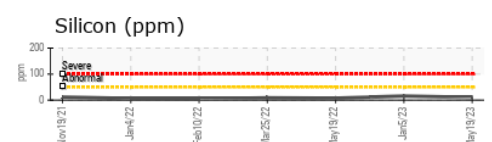
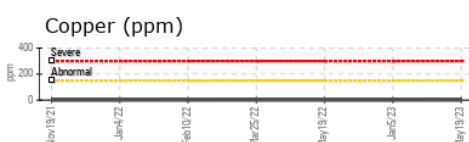
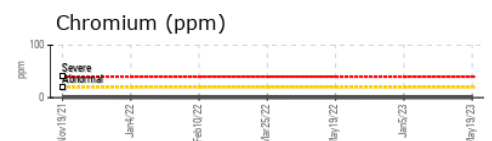
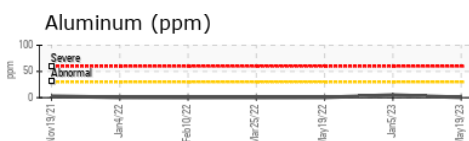
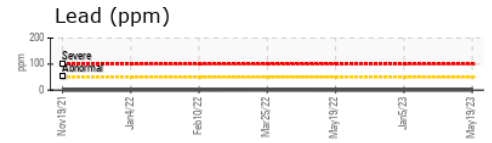
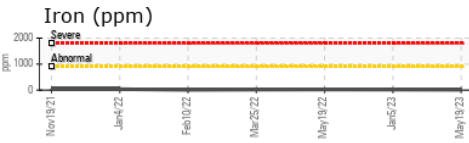
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	VLITE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	134	139
Visc @ 100°C	cSt	ASTM D7279(m)	15.06	14.3	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. : PC0069036 **Received** : 06 Jun 2023 Contiguo FANAL, frente a la Autopista Bernardo Soto
Lab Number : 02562319 **Diagnosed** : 07 Jun 2023 Grecia, A
Unique Number : 5591360 **Diagnostician** : Wes Davis CR
Test Package : MOB 2 (Additional Tests: KV100, PQ, VI)
 To discuss this sample report, contact Customer Service at 1-800-268-2131. Contact: Erick Bogantes
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. cotizaciones@lubricantescanada.com
 Validity of results and interpretation are based on the sample and information as supplied. T: 1(115)062-1598
 F: 1(115)062-2870