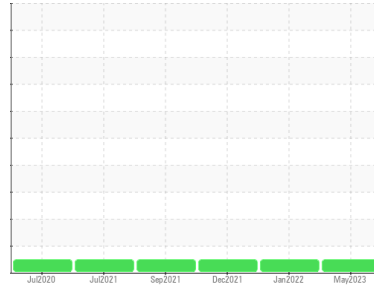




# OIL ANALYSIS REPORT

Area  
**EBI DE COSTA RICA**  
Machine Id  
**CATERPILLAR D6T-XL D6T 06**  
Component  
**Right Final Drive**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (14 LTR)**

Sample Rating Trend



**NORMAL**

## 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>PC0073902</b>	PC0054946	PC0055401
Sample Date	Client Info		<b>15 May 2023</b>	29 Jan 2022	02 Dec 2021
Machine Age	hrs	Client Info	<b>15522</b>	13676	13158
Oil Age	hrs	Client Info	<b>500</b>	500	250
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>800	<b>9</b>	62	77
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>75	<b>4</b>	2	2
Lead	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>75	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>8	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	>50	<b>0</b>	0	<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)	2	<b>2</b>	2	<1
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	9	<b>13</b>	8	11
Calcium	ppm	ASTM D5185(m)	3114	<b>3025</b>	3028	2960
Phosphorus	ppm	ASTM D5185(m)	1099	<b>1095</b>	1105	1085
Zinc	ppm	ASTM D5185(m)	1245	<b>1268</b>	1255	1258
Sulfur	ppm	ASTM D5185(m)	7086	<b>4734</b>	4712	4493
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1

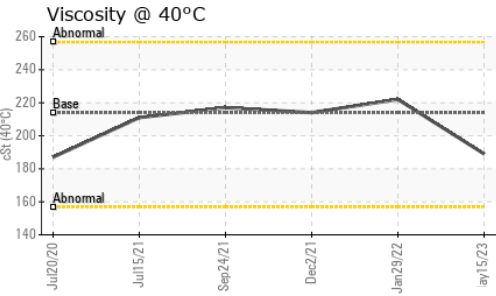
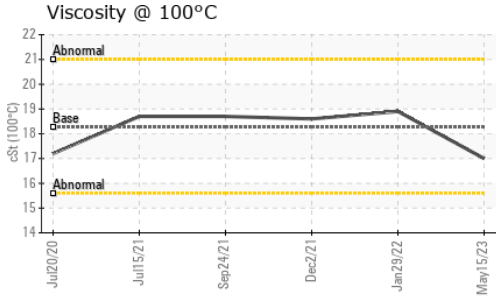
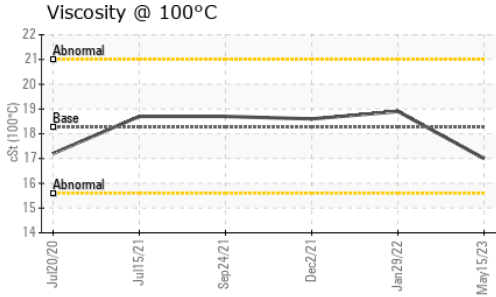
## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>400	<b>26</b>	12	22
Sodium	ppm	ASTM D5185(m)		<b>5</b>	2	2
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	<1	<1

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974*	3.27	<b>2.39</b>	2.56	2.50

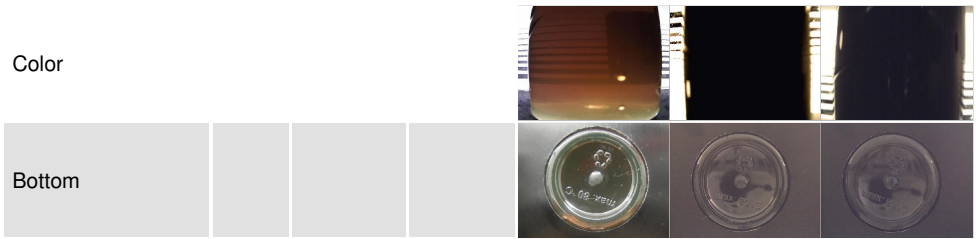
# OIL ANALYSIS REPORT



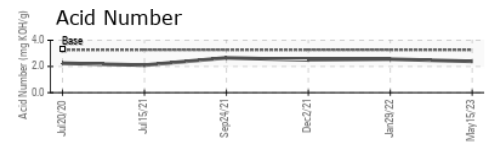
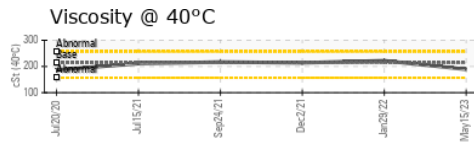
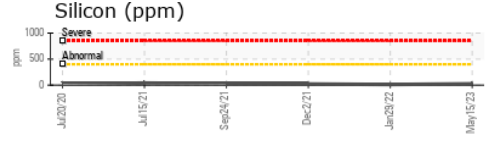
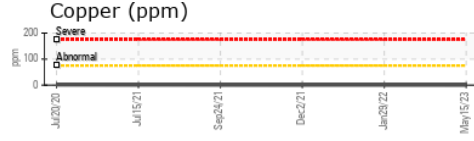
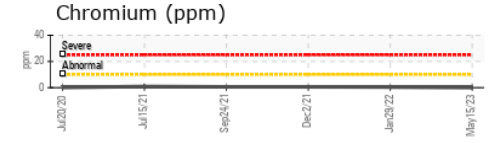
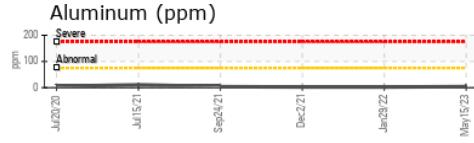
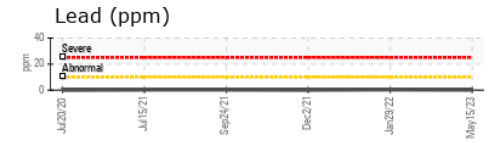
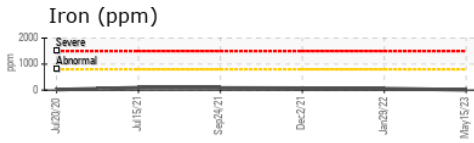
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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)	213.9	189	222	214
Visc @ 100°C	cSt	ASTM D7279(m)	18.26	17.0	18.9	18.6
Viscosity Index (VI)	Scale	ASTM D2270*	96	95	95	96

## SAMPLE IMAGES



## GRAPHS



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**  
**Sample No.** : PC0073902 **Received** : 13 Jul 2023  
**Lab Number** : 02569792 **Diagnosed** : 13 Jul 2023  
**Unique Number** : 5606838 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KV100, TAN Man, 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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