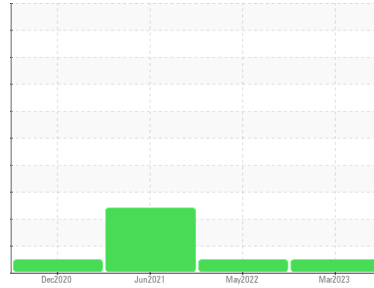


# OIL ANALYSIS REPORT



Area  
**EBI DE COSTA RICA**  
Machine Id  
**CATERPILLAR D8T**  
Component  
**Right Final Drive**  
Fluid  
**PETRO CANADA PRODURO TO-4 SAE 50 (13 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>PC0073828</b>	PC0055185	PC0041614
Sample Date	Client Info		<b>21 Mar 2023</b>	12 May 2022	30 Jun 2021
Machine Age	hrs	Client Info	<b>15000</b>	20160	20030
Oil Age	hrs	Client Info	<b>500</b>	0	500
Oil Changed	Client Info		<b>Changed</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >800	<b>8</b>	72	573
Chromium	ppm	ASTM D5185(m) >10	<b>0</b>	<1	5
Nickel	ppm	ASTM D5185(m) >5	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >15	<b>&lt;1</b>	3	4
Silver	ppm	ASTM D5185(m) >2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >75	<b>1</b>	8	▲ 56
Lead	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185(m) >75	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185(m) >8	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185(m) >50	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
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>1</b>	3	4
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	4
Manganese	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	4
Magnesium	ppm	ASTM D5185(m) 9	<b>12</b>	8	21
Calcium	ppm	ASTM D5185(m) 3114	<b>2906</b>	3026	3051
Phosphorus	ppm	ASTM D5185(m) 1099	<b>1102</b>	1093	1122
Zinc	ppm	ASTM D5185(m) 1245	<b>1265</b>	1287	1298
Sulfur	ppm	ASTM D5185(m) 7086	<b>4318</b>	4551	4884
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

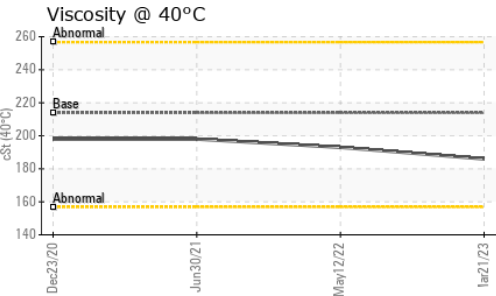
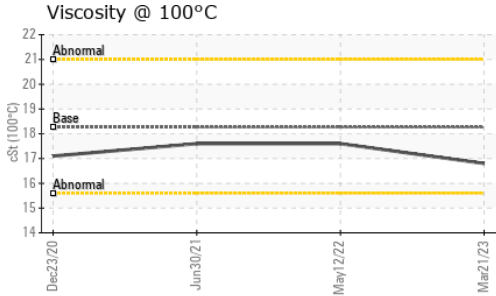
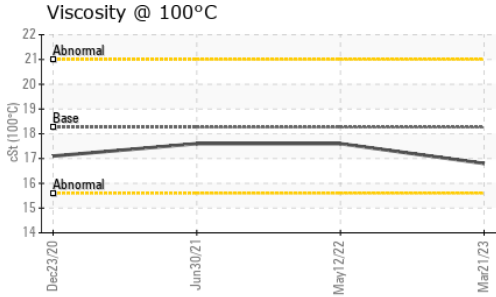
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >400	<b>6</b>	24	▲ 209
Sodium	ppm	ASTM D5185(m)	<b>1</b>	3	15
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	2	13

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 3.27	<b>2.38</b>	2.16	2.73

# OIL ANALYSIS REPORT

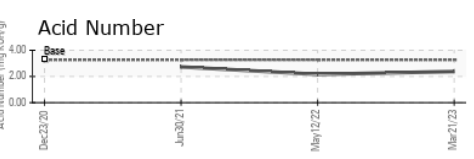
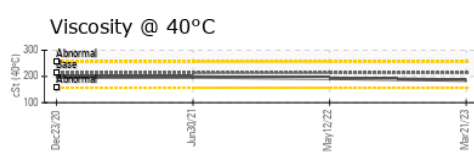
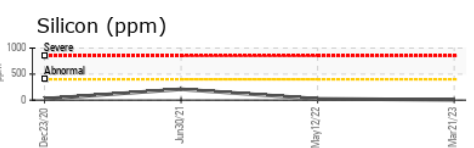
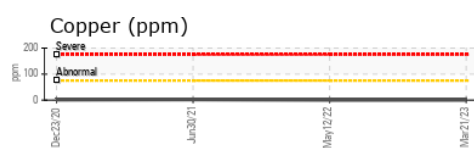
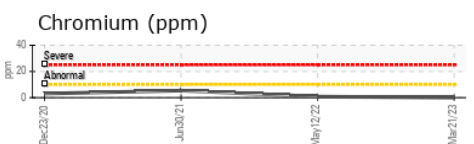
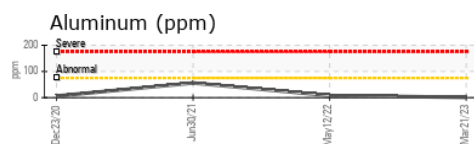
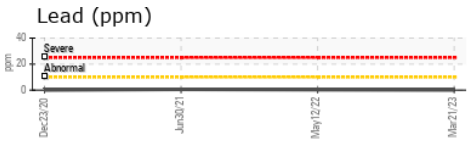
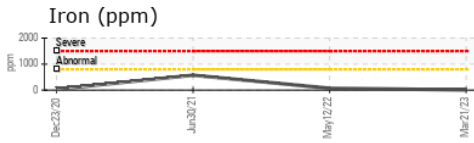


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	186	193
Visc @ 100°C	cSt	ASTM D7279(m)	18.26	16.8	17.6
Viscosity Index (VI)	Scale	ASTM D2270*	96	95	98

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **INDUSTRIAS del PETROLEO CANAD. SA**  
**Sample No.** : PC0073828 **Received** : 13 Jul 2023  
**Lab Number** : 02569788 **Diagnosed** : 13 Jul 2023  
**Unique Number** : 5606834 **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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