

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend



#### Area Plymouth & Brockton Machine Id 11444

#### Component Diesel Engine Fluid PETRO CANADA 15W40 (36 QTS)

### 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.

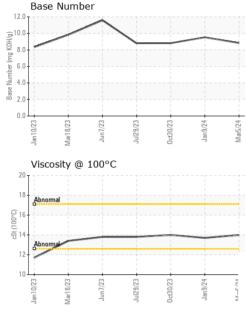
#### Fluid Condition

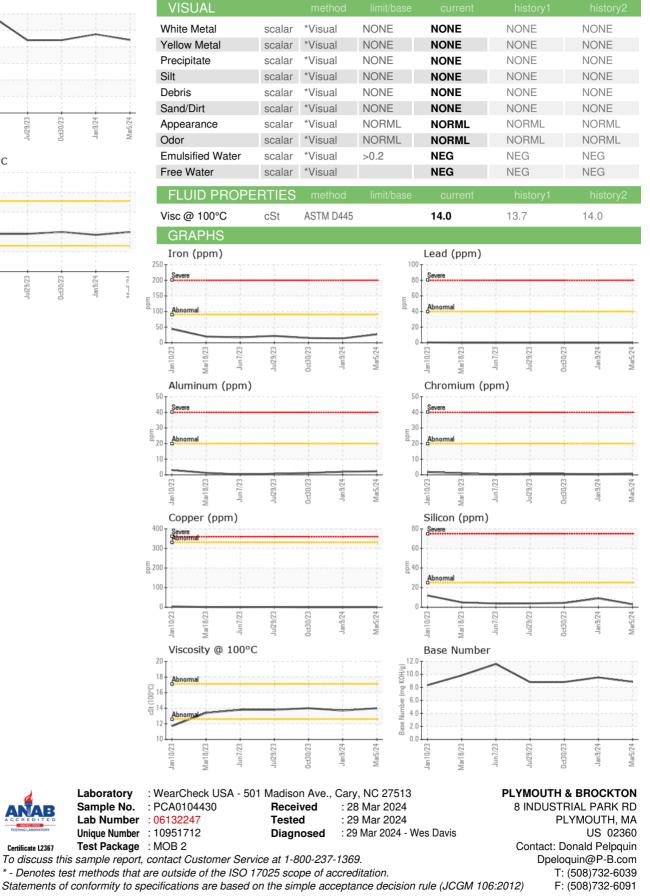
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Jan 2023	Mar2023 Jun2023	Jul2023 Oct2023 Jan2024	Mar2024	
SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104430	PCA0104563	PCA0104565
Sample Date		Client Info		05 Mar 2024	09 Jan 2024	30 Oct 2023
Machine Age	mls	Client Info		96124	83543	72331
Oil Age	mls	Client Info		24000	12000	24000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	27	14	15
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	0	0
Tin	ppm	ASTM D5185m	>15	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		6	10	9
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		56	57	60
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		917	857	871
Calcium	ppm	ASTM D5185m		1040	977	1066
Phosphorus	ppm	ASTM D5185m		889	936	929
Zinc	ppm	ASTM D5185m		1147	1139	1209
Sulfur	ppm	ASTM D5185m		3151	2714	2873
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	9	4
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	0
		method	limit/base	current	history1	history2
INFRA-RED			0	2.7	1.4	1.5
Soot %	%	*ASTM D7844	>6	2.1	1	
Soot %	% Abs/cm	*ASTM D7844 *ASTM D7624	>6 >20	11.3	8.3	9.3
Soot % Nitration	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	11.3	8.3	9.3
Soot % Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20 >30 limit/base	11.3 24.4	8.3 20.7	9.3 21.8



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Certificate L2367