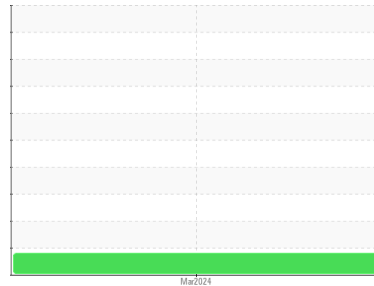


# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**PETRO CANADA HYDREX AW 32 - PCA06146838**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- LTR)**

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample. No corrective action is recommended at this time.

### Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. There is a trace of light hydrocarbons present, creating a false positive reading for gasoline present in the oil.

### Fluid Condition

Flash Point is normal. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA06146838</b>	---	---
Sample Date	Client Info		<b>19 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ATTENTION</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >5	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >5	<b>1</b>	---	---
Lead	ppm	ASTM D5185m >5	<b>1</b>	---	---
Copper	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Tin	ppm	ASTM D5185m >5	<b>1</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>1</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>2</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>4</b>	---	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>25</b>	---	---
Calcium	ppm	ASTM D5185m	<b>181</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>353</b>	---	---
Zinc	ppm	ASTM D5185m	<b>433</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>879</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	---	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---
Fuel	%	ASTM D3524	<b>3.3</b>	---	---
Water	%	ASTM D6304	<b>NEG</b>	---	---

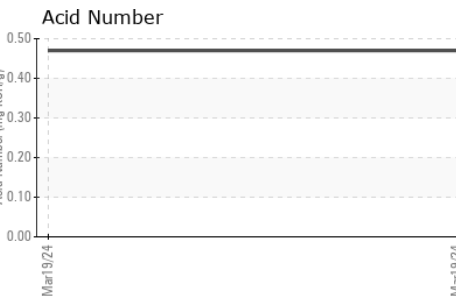
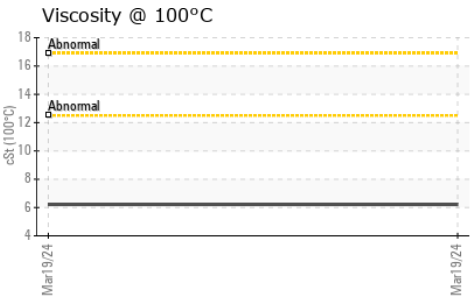
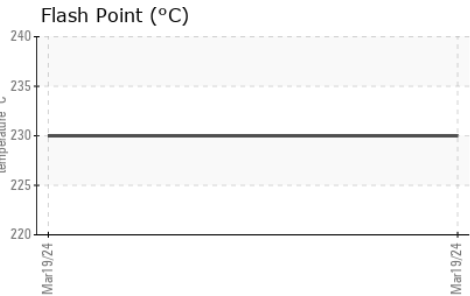
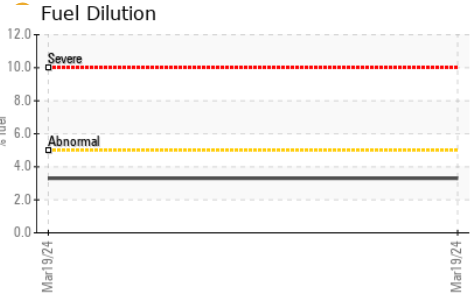
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>6845</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>931</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>33</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>10</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>0</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>20/17/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.47</b>	---	---

# OIL ANALYSIS REPORT

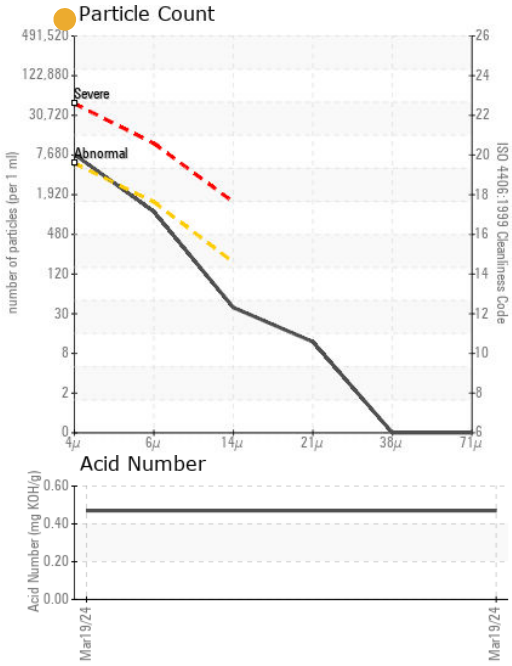
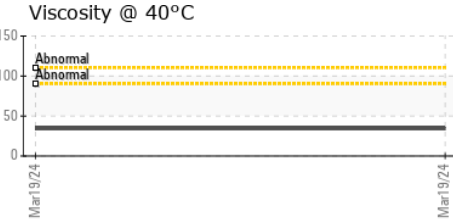
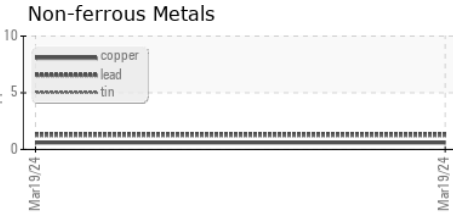
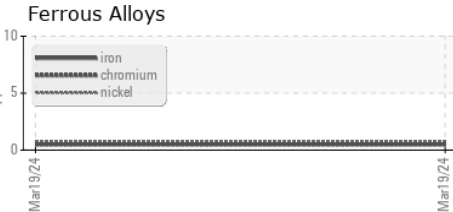


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	34.35	---	---
Visc @ 100°C	cSt	ASTM D445	6.22	---	---
Viscosity Index (VI)	Scale	ASTM D2270	131	---	---
COC Flash Point	°C	ASTM D92	230	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA06146838      **Received** : 11 Apr 2024  
**Lab Number** : 06146838      **Tested** : 05 May 2024  
**Unique Number** : 10976916      **Diagnosed** : 05 May 2024 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: COC Flash, FT-IR, FuelDilution, ICP-NewOil, KF, KV100, PercentFuel, PCOC)

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)