

# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**DA LUBRICANTS 10W - PCA05920948**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- GAL)**

## DIAGNOSIS

### Recommendation

This is a baseline read-out on the submitted sample.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA05920948</b>	---	---
Sample Date	Client Info		<b>09 Aug 2023</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>NORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >5	<b>2</b>	---	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m >5	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>0</b>	---	---
Silver	ppm	ASTM D5185m >5	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >5	<b>1</b>	---	---
Lead	ppm	ASTM D5185m >5	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m >5	<b>0</b>	---	---
Tin	ppm	ASTM D5185m >5	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>4</b>	---	---
Barium	ppm	ASTM D5185m	<b>1</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>39</b>	---	---
Manganese	ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>12</b>	---	---
Calcium	ppm	ASTM D5185m	<b>3499</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>883</b>	---	---
Zinc	ppm	ASTM D5185m	<b>1101</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>4608</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>3</b>	---	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	---	---

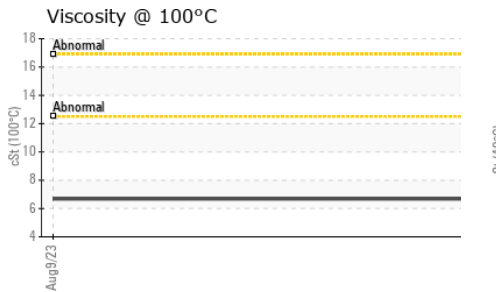
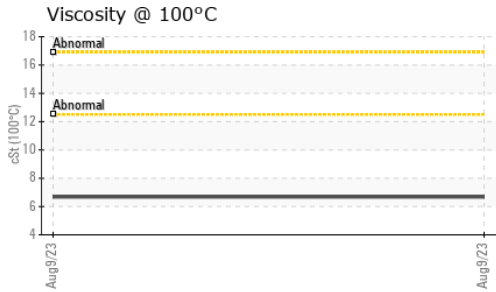
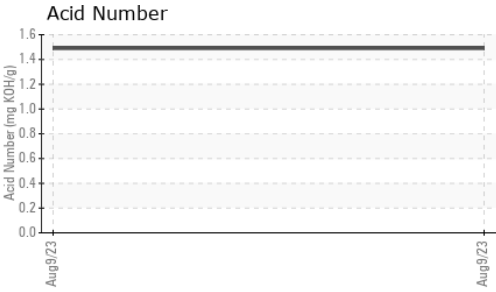
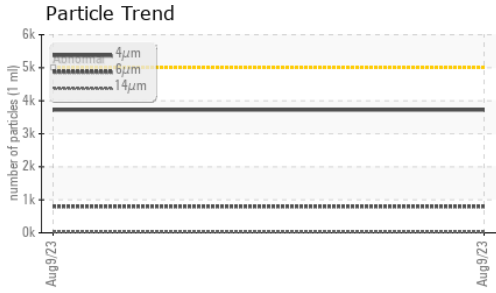
## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>3723</b>	---	---
Particles >6µm	ASTM D7647	>1300	<b>798</b>	---	---
Particles >14µm	ASTM D7647	>160	<b>24</b>	---	---
Particles >21µm	ASTM D7647	>40	<b>5</b>	---	---
Particles >38µm	ASTM D7647	>10	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>3	<b>1</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>19/17/12</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.49</b>	---	---

# OIL ANALYSIS REPORT



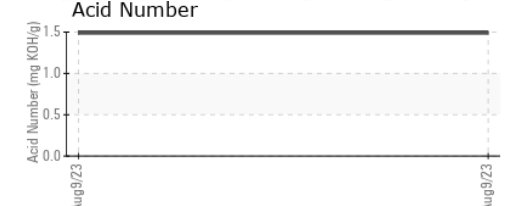
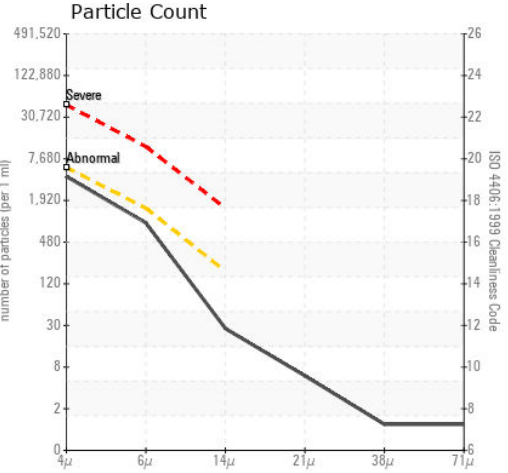
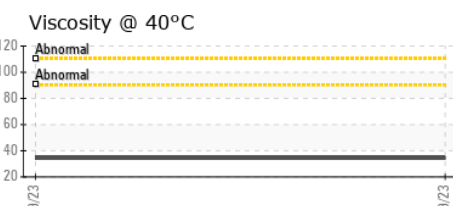
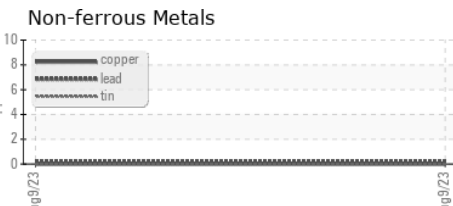
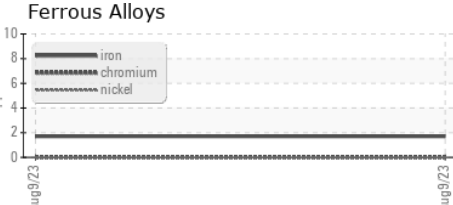
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	34.39	---	---
Visc @ 100°C	cSt	ASTM D445	6.68	---	---
Viscosity Index (VI)	Scale	ASTM D2270	154	---	---

### SAMPLE IMAGES

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 **PETRO CANADA AMERICA LUBRRICANTS INC**

**Sample No.** : PCA05920948 **Received** : 10 Aug 2023

**Lab Number** : 05920948 **Diagnosed** : 11 Aug 2023 **MISSISSAUGA, ON**

**Unique Number** : 10592862 **Diagnostician** : Jonathan Hester **US**

**Test Package** : MOB 2 ( Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, VI ) **Contact:** Jason Schaben

To discuss this sample report, contact Customer Service at 1-800-237-1369. **Jason.schaben@HFSinclair.com**

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **T:**

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) **F:**