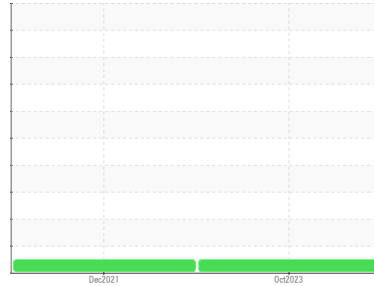


# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**GARDNER DENVER GRRG (S/N S523939)**

Component  
**Pump**

Fluid  
**PETRO CANADA ENDURATEX EP 220 (--- GAL)**

## 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>PCA0098140</b>	PCA0065576	---
Sample Date	Client Info		<b>10 Oct 2023</b>	15 Dec 2021	---
Machine Age	yrs	Client Info	<b>5</b>	2	---
Oil Age	yrs	Client Info	<b>2</b>	1	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>&lt;1</b>	15	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	0	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >7	<b>&lt;1</b>	2	---
Lead	ppm	ASTM D5185m >12	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185m >30	<b>18</b>	<1	---
Tin	ppm	ASTM D5185m >9	<b>&lt;1</b>	0	---
Antimony	ppm	ASTM D5185m	<b>---</b>	0	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 60	<b>5</b>	15	---
Barium	ppm	ASTM D5185m 0	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m 0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m 0	<b>3</b>	0	---
Calcium	ppm	ASTM D5185m 0	<b>2</b>	22	---
Phosphorus	ppm	ASTM D5185m 270	<b>75</b>	221	---
Zinc	ppm	ASTM D5185m 0	<b>27</b>	26	---
Sulfur	ppm	ASTM D5185m 11200	<b>2518</b>	4000	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	<b>0</b>	<1	---
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	---

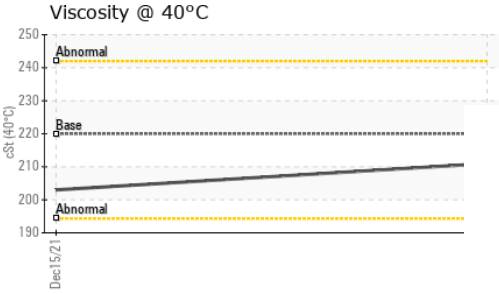
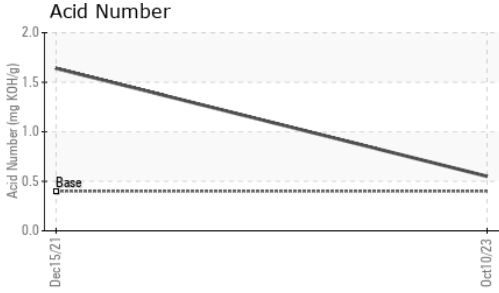
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.40	<b>0.55</b>	1.64	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >.1	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---

# OIL ANALYSIS REPORT



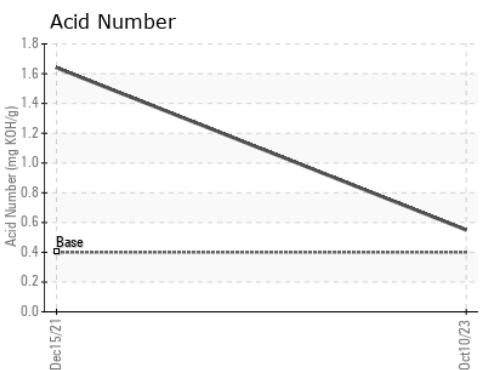
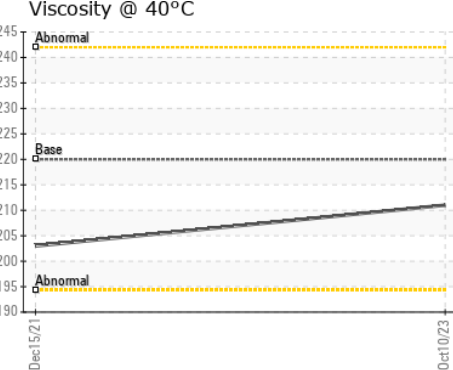
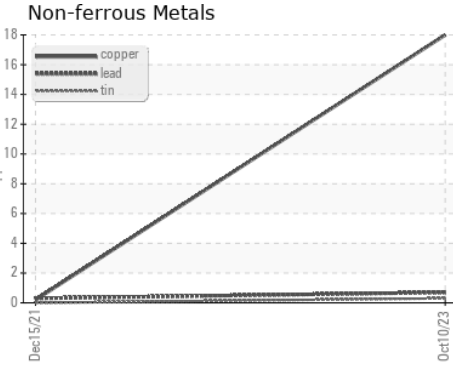
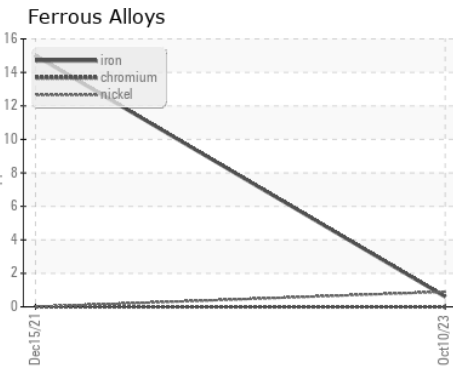
## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt ASTM D445	220	211	203

## SAMPLE IMAGES

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0098140 **Received** : 16 Oct 2023  
**Lab Number** : **05980516** **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10697811 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**CERTANTEED CORP**  
 200 RONTHOR DR  
 SOCIAL CIRCLE, GA  
 US 30025

Contact: MARK KIRKPATRICK  
 MARK.W.KIRKPATRICK@SAINT-GOBAIN.COM

T: (770)464-0878  
 F: (770)464-0878

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)