

# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**NOT GIVEN PCA0103210**  
 Component  
**Rear Axle**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

Bearing and/or bushing wear is indicated. All other 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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0103210</b>	---	---
Sample Date	Client Info			<b>17 Feb 2024</b>	---	---
Machine Age	hrs	Client Info		<b>20776</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	---	---

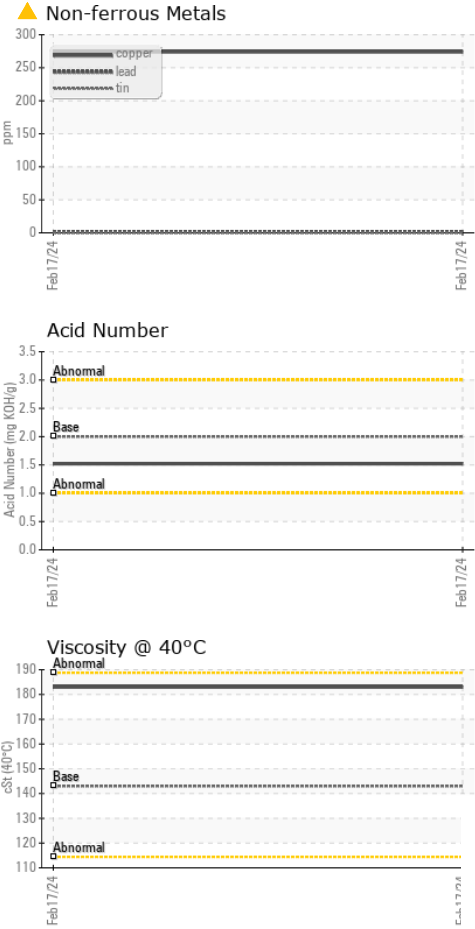
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	<b>284</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	---	---
Lead	ppm	ASTM D5185m	>25	<b>1</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>▲ 274</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	<b>6</b>	---	---
Barium	ppm	ASTM D5185m	200	<b>334</b>	---	---
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>7</b>	---	---
Magnesium	ppm	ASTM D5185m	12	<b>3</b>	---	---
Calcium	ppm	ASTM D5185m	150	<b>10</b>	---	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1664</b>	---	---
Zinc	ppm	ASTM D5185m	125	<b>202</b>	---	---
Sulfur	ppm	ASTM D5185m	22500	<b>48342</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	<b>14</b>	---	---
Sodium	ppm	ASTM D5185m	>170	<b>4</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	<b>1.52</b>	---	---

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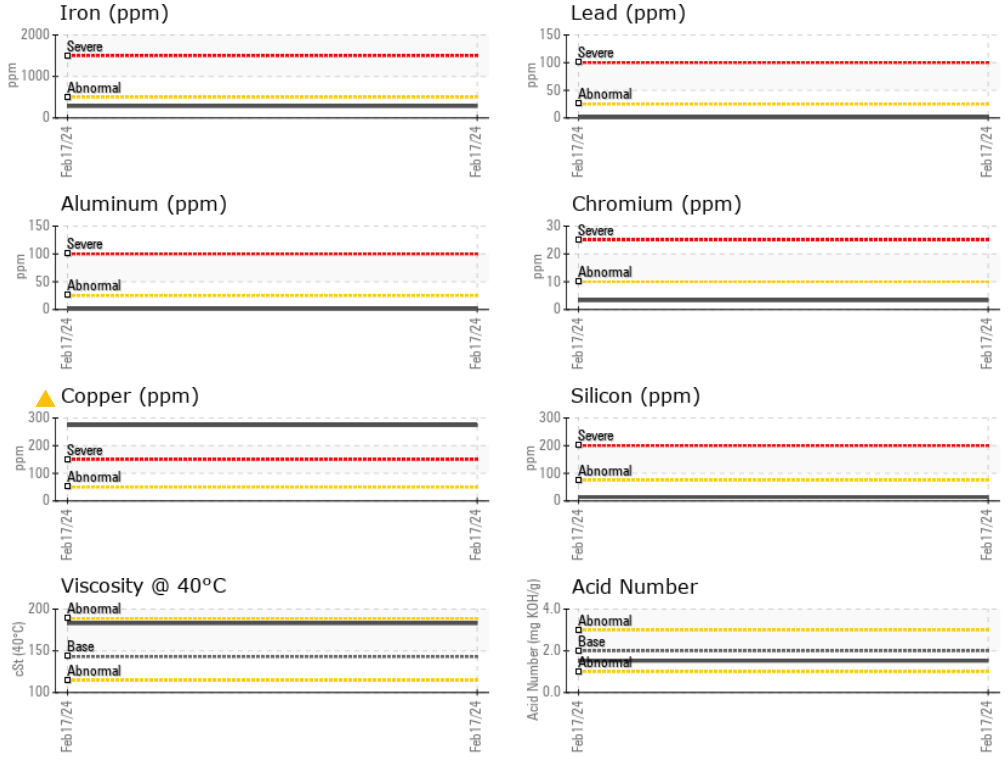


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	MODER	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	183	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0103210 **Received** : 16 Feb 2024  
**Lab Number** : 06092057 **Tested** : 20 Feb 2024  
**Unique Number** : 10884910 **Diagnosed** : 20 Feb 2024 - Don Baldrige  
**Test Package** : MOB 2

**SCRAP METAL SERVICES NON-FERROUS DIVISION**  
 3000 W 139TH ST  
 BLUE ISLAND, IL  
 US 60406  
 Contact: SERGIO FERNANDEZ  
 sfernandez@scrapmetalservices.com

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)

T:  
F: