

Machine Id  
**767**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**



**DIAGNOSIS**

**▲ Recommendation**  
 The oil is near the end of its useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

**▲ Wear**  
 Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

**Contamination**  
 There is no indication of any contamination in the oil.

**▲ Fluid Condition**  
 The BN level is low. 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>PCA0069446</b>	---	---
Sample Date	Client Info		<b>19 Dec 2023</b>	---	---
Machine Age	mls	Client Info	<b>0</b>	---	---
Oil Age	mls	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
Fuel	WC Method	>5	<b>&lt;1.0</b>	---	---
Water	WC Method	>0.2	<b>NEG</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>▲ 123</b>	---	---
Chromium	ppm	ASTM D5185m >20	<b>4</b>	---	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m >20	<b>9</b>	---	---
Lead	ppm	ASTM D5185m >40	<b>6</b>	---	---
Copper	ppm	ASTM D5185m >330	<b>3</b>	---	---
Tin	ppm	ASTM D5185m >15	<b>2</b>	---	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	---	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>31</b>	---	---
Barium	ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	<b>91</b>	---	---
Manganese	ppm	ASTM D5185m	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185m	<b>100</b>	---	---
Calcium	ppm	ASTM D5185m	<b>2294</b>	---	---
Phosphorus	ppm	ASTM D5185m	<b>1087</b>	---	---
Zinc	ppm	ASTM D5185m	<b>1319</b>	---	---
Sulfur	ppm	ASTM D5185m	<b>3497</b>	---	---

**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>20</b>	---	---
Sodium	ppm	ASTM D5185m	<b>3</b>	---	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	---	---

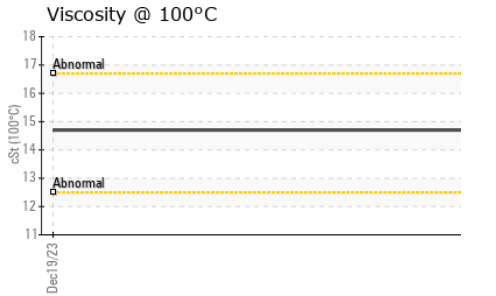
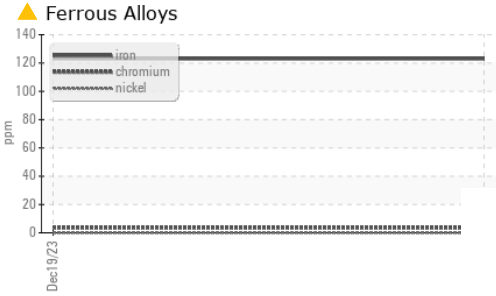
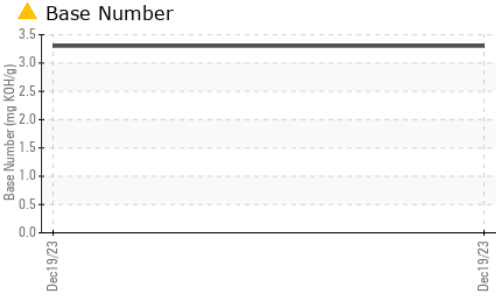
**INFRA-RED**

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.9</b>	---	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>15.7</b>	---	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>36.9</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>38.4</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>▲ 3.3</b>	---	---

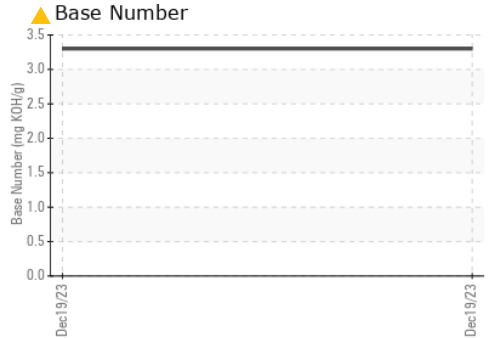
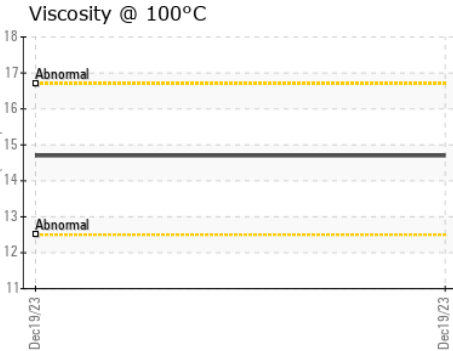
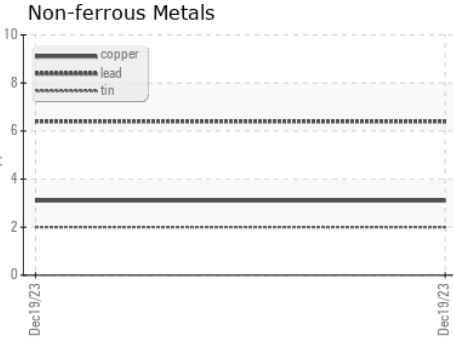
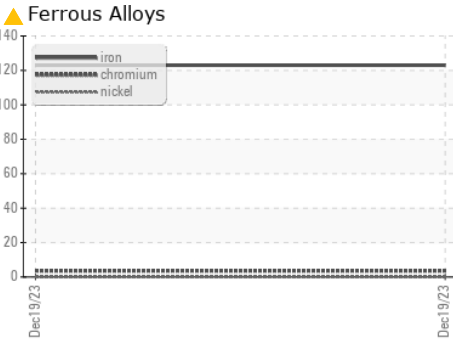
# OIL ANALYSIS REPORT



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	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.7	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0069446 **Recieved** : 20 Dec 2023  
**Lab Number** : 06041267 **Diagnosed** : 22 Dec 2023  
**Unique Number** : 10796496 **Diagnostician** : Don Baldrige  
**Test Package** : FLEET

**NOVCO INC**  
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 ELK RIVER, MN  
 US 55330  
 Contact: GREG KLABUNDE  
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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)