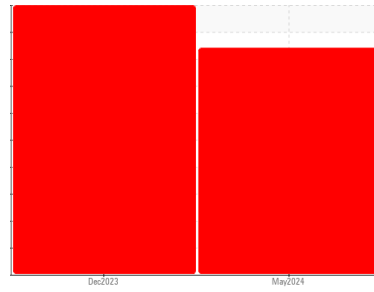




# PROBLEM SUMMARY

## Sample Rating Trend



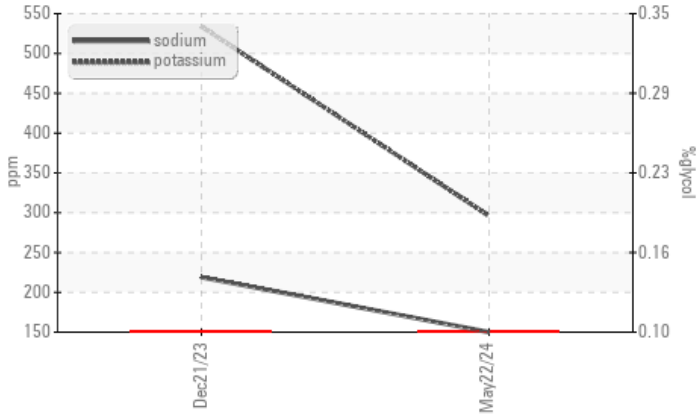
GLYCOL



Machine Id  
**93075**  
 Component  
**Diesel Engine**  
 Fluid  
**AMERIGUARD 10W30 (10 GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Glycol Contamination



## RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status			SEVERE	SEVERE	---
Sodium	ppm	ASTM D5185m	▲ 150	▲ 219	---
Potassium	ppm	ASTM D5185m >20	▲ 296	▲ 534	---
Glycol	%	*ASTM D2982	▲ 0.10	▲ 0.10	---

Customer Id: SBTOMA  
 Sample No.: SBP0007025  
 Lab Number: 06195051  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

## HISTORICAL DIAGNOSIS

### GLYCOL



#### 21 Dec 2023 Diag: Jonathan Hester

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN level is low. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

view report

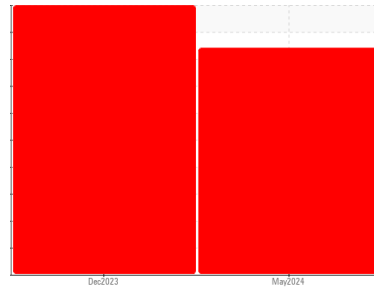




# OIL ANALYSIS REPORT

Machine Id  
**93075**  
 Component  
**Diesel Engine**  
 Fluid  
**AMERIGUARD 10W30 (10 GAL)**

## Sample Rating Trend



GLYCOL



### DIAGNOSIS

#### ▲ Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

Sodium and/or potassium levels are high. Test for glycol is positive.

#### ▲ Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>SBP0007025</b>	SBP0006015	---
Sample Date	Client Info		<b>22 May 2024</b>	21 Dec 2023	---
Machine Age	mls	Client Info	<b>133465</b>	121240	---
Oil Age	mls	Client Info	<b>12225</b>	25000	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>SEVERE</b>	SEVERE	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	▲ 2.8	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>80	<b>48</b>	56	---
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	4	---
Lead	ppm	ASTM D5185m	>30	<b>2</b>	1	---
Copper	ppm	ASTM D5185m	>150	<b>2</b>	4	---
Tin	ppm	ASTM D5185m	>5	<b>&lt;1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>1</b>	5	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>72</b>	75	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>905</b>	899	---
Calcium	ppm	ASTM D5185m		<b>1301</b>	995	---
Phosphorus	ppm	ASTM D5185m		<b>1022</b>	872	---
Zinc	ppm	ASTM D5185m		<b>1308</b>	1264	---
Sulfur	ppm	ASTM D5185m		<b>3680</b>	2841	---

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	<b>15</b>	9	---
Sodium	ppm	ASTM D5185m		▲ <b>150</b>	▲ 219	---
Potassium	ppm	ASTM D5185m	>20	▲ <b>296</b>	▲ 534	---
Glycol	%	*ASTM D2982		▲ <b>0.10</b>	▲ 0.10	---

### INFRA-RED

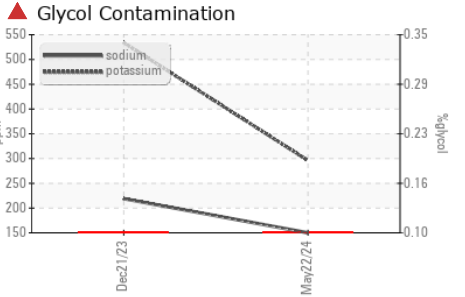
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.7	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.0</b>	17.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>29.2</b>	33.7	---

### FLUID DEGRADATION

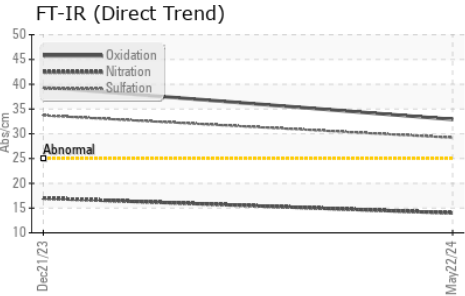
	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>32.9</b>	39.4	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>3.8</b>	▲ 2.8	---



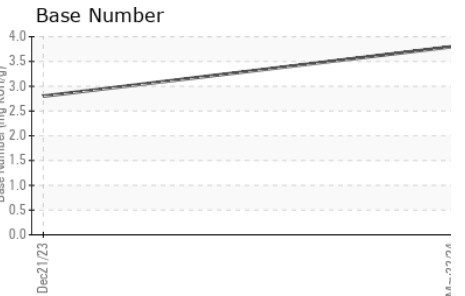
# OIL ANALYSIS REPORT



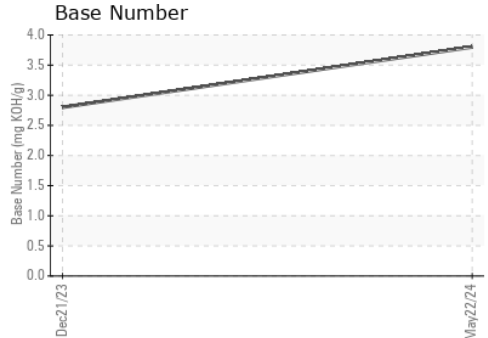
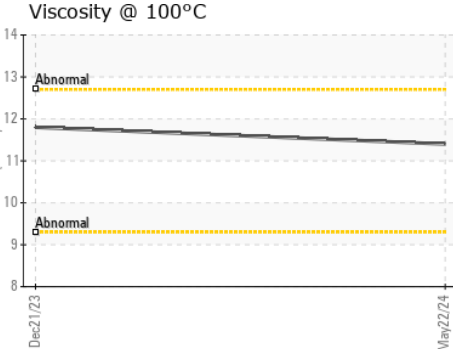
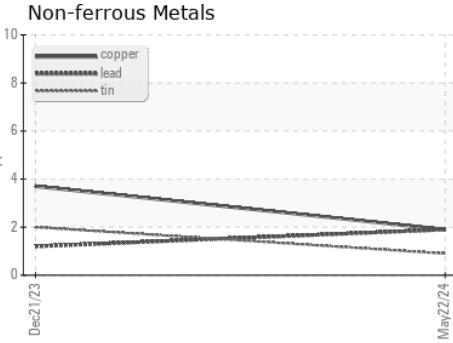
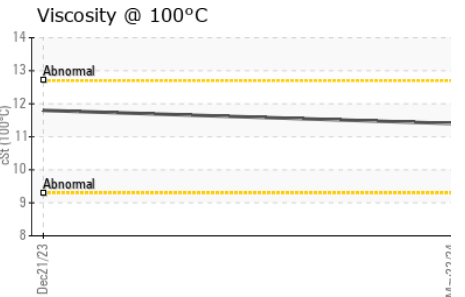
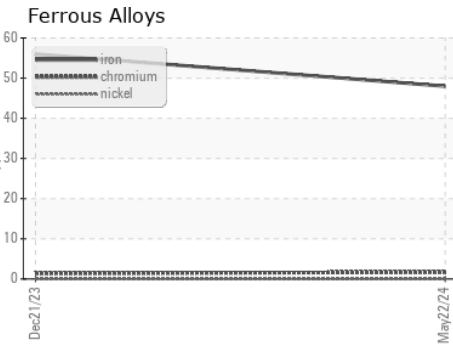
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	11.4	11.8	---



## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0007025      **Received** : 30 May 2024  
**Lab Number** : 06195051      **Tested** : 31 May 2024  
**Unique Number** : 11057174      **Diagnosed** : 02 Jun 2024 - Don Baldrige  
**Test Package** : FLEET

**Sapp Bros. Fleet - Omaha Petroleum Location**  
 9915 South 148th  
 OMAHA, NE  
 US 68138  
 Contact: Stephanie Kelly  
 skelly@sappbros.net  
 T: (800)211-8589  
 F:

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)