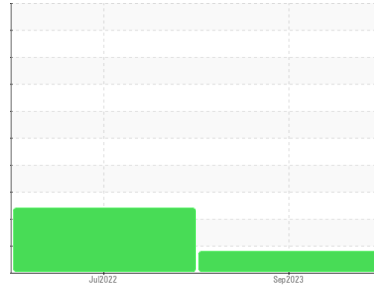




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**GMC RSX-CAV8 (S/N 1C4HJWEG0DL634809)**

Component  
**Diesel Engine**

Fluid  
**TRC MOLY XL PROSPEC III 15W40 (12 QTS)**

## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. 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>TR05999226</b>	TR05621956	---
Sample Date	Client Info	<b>19 Sep 2023</b>	26 Jul 2022	---
Machine Age	mls	<b>48225</b>	29636	---
Oil Age	mls	<b>32000</b>	8000	---
Oil Changed	Client Info	<b>Changed</b>	Not Changd	---
Sample Status		<b>ABNORMAL</b>	SEVERE	---

## CONTAMINATION

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

## WEAR METALS

method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>100	<b>62</b>	50	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	5	---
Lead	ppm	ASTM D5185m	>40	<b>2</b>	3	---
Copper	ppm	ASTM D5185m	>330	<b>3</b>	5	---
Tin	ppm	ASTM D5185m	>15	<b>1</b>	2	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---

## ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	9	---
Barium	ppm	ASTM D5185m		<b>2</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>128</b>	75	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>80</b>	21	---
Calcium	ppm	ASTM D5185m	4500	<b>3023</b>	2962	---
Phosphorus	ppm	ASTM D5185m		<b>650</b>	661	---
Zinc	ppm	ASTM D5185m	1400	<b>778</b>	771	---
Sulfur	ppm	ASTM D5185m		<b>3324</b>	3010	---

## CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	<b>8</b>	11	---
Sodium	ppm	ASTM D5185m		<b>2</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	4	---
Fuel	%	ASTM D3524	>5	<b>▲ 6.3</b>	◆ 27.0	---

## INFRA-RED

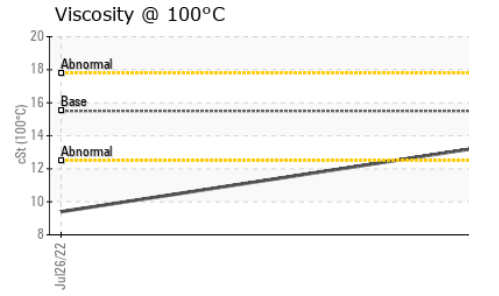
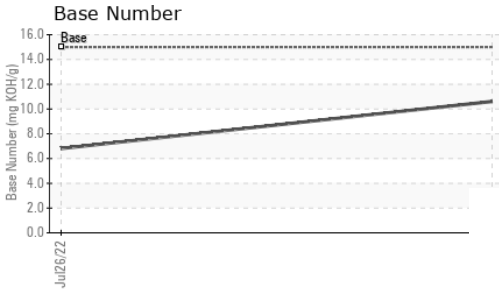
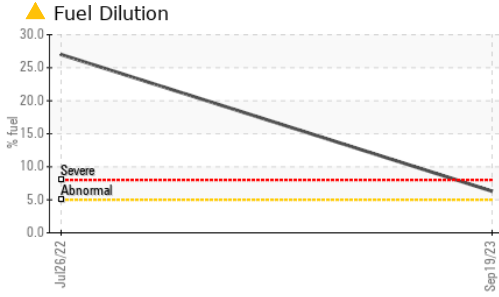
method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	<b>1.3</b>	1.2	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.1</b>	16.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.7</b>	27.5	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>15.5</b>	23.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	<b>10.61</b>	6.81	---



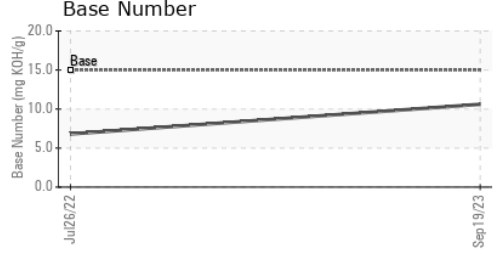
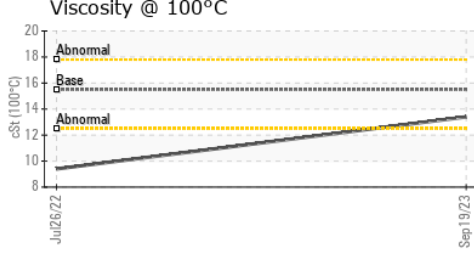
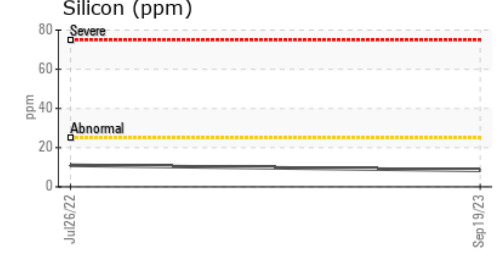
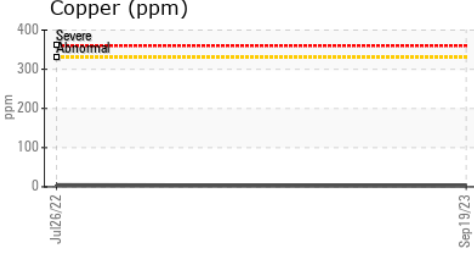
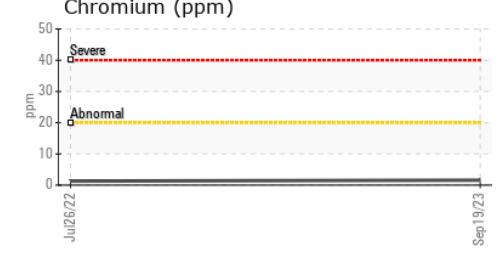
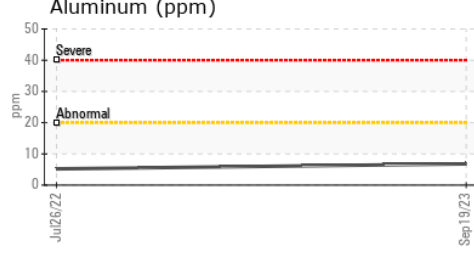
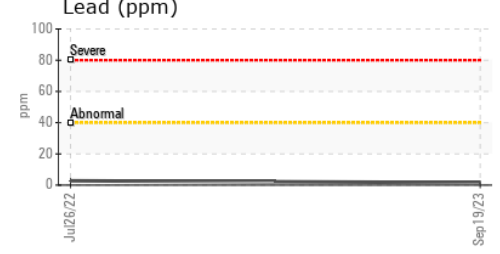
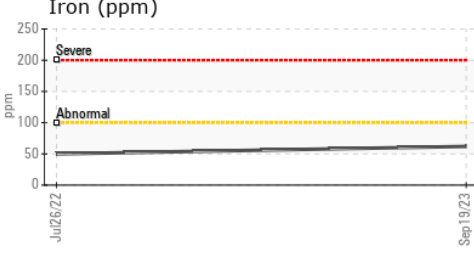
# OIL ANALYSIS REPORT



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	15.5	13.4	▲ 9.4

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR05999226 **Recieved** : 06 Nov 2023  
**Lab Number** : 05999226 **Diagnosed** : 07 Nov 2023  
**Unique Number** : 10727586 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel )

**ROWELL'S SERVICES**  
 359 TILTON RD  
 NORTH FIELD, NH  
 US 03276  
 Contact: DON PERCY

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-827-0711.  
 \* - 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)

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F: