



# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**BLUE STAR MORG EYE**  
 Component  
**Natural Gas Engine**  
 Fluid  
**NAPA SAE 5W30 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### ▲ Wear

Bearing and/or bushing wear is indicated.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0901723</b>	---	---
Sample Date	Client Info		<b>29 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<b>7</b>	---
Chromium	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>9	<b>3</b>	---
Lead	ppm	ASTM D5185m	>30	<b>3</b>	---
Copper	ppm	ASTM D5185m	>35	<b>▲ 52</b>	---
Tin	ppm	ASTM D5185m	>4	<b>▲ 6</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>91</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>63</b>	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m		<b>772</b>	---
Calcium	ppm	ASTM D5185m		<b>1099</b>	---
Phosphorus	ppm	ASTM D5185m		<b>811</b>	---
Zinc	ppm	ASTM D5185m		<b>884</b>	---
Sulfur	ppm	ASTM D5185m		<b>2979</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	<b>37</b>	---
Sodium	ppm	ASTM D5185m		<b>5</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---

## INFRA-RED

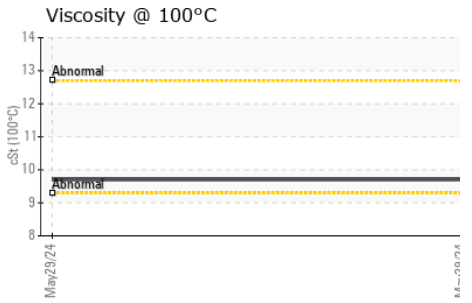
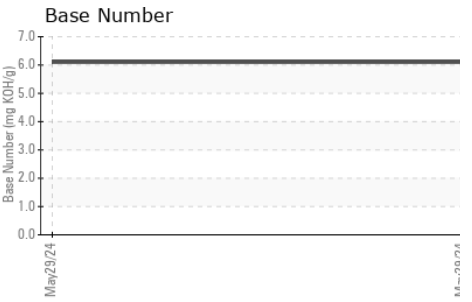
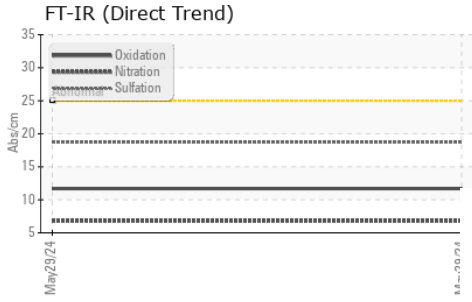
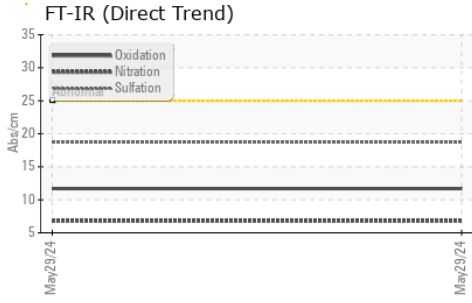
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.8</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.7</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>11.7</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.1</b>	---



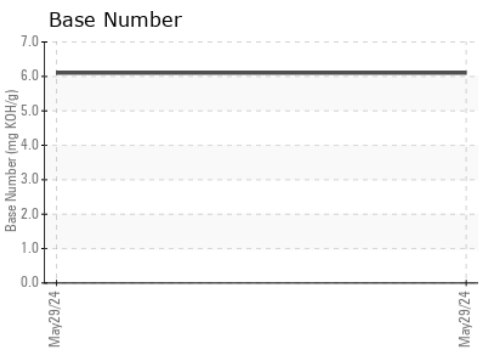
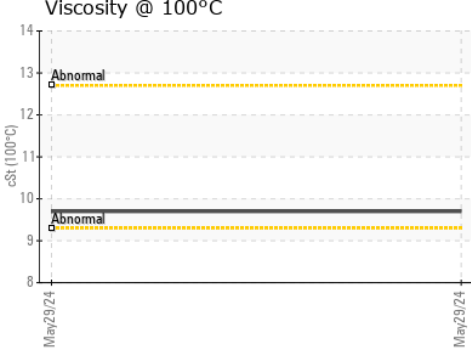
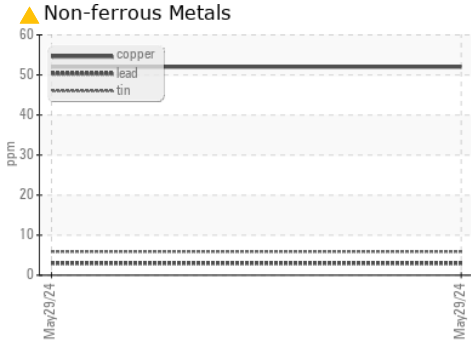
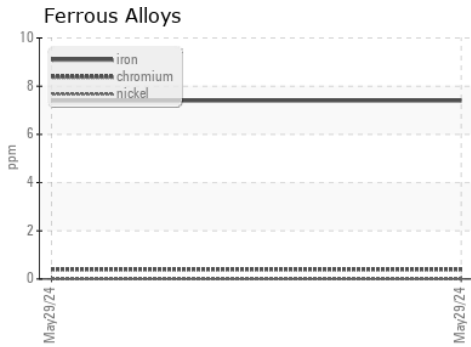
# OIL ANALYSIS REPORT



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	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	9.7	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0901723      **Received** : 06 Jun 2024  
**Lab Number** : 06202274      **Tested** : 11 Jun 2024  
**Unique Number** : 11069735      **Diagnosed** : 11 Jun 2024 - Jonathan Hester  
**Test Package** : FLEET

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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)