



# OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Area  
**CASEY HOWELL [W-HOW-N/A-22-0317]**  
Machine Id  
**BAYLINER NO UNIT WC0844446**

Component  
**Diesel Engine**  
Fluid  
**NOT GIVEN (--- LTR)**



## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

High concentration of dirt present in the oil. There is a high amount of fuel present in the oil.

### Fluid Condition

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>WC0844446</b>	---	---
Sample Date	Client Info			<b>03 Oct 2023</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>56</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>2</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>6</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>5</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>103</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>46</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>3</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>16</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1833</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>606</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>698</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>1721</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

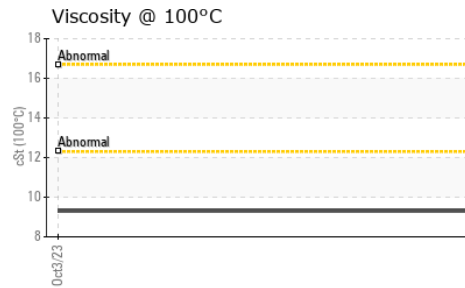
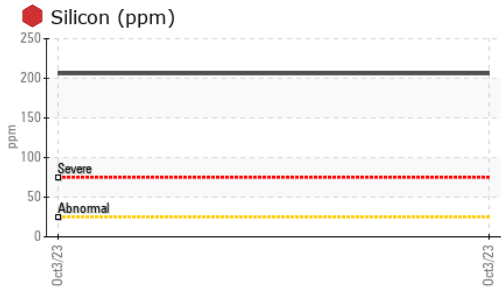
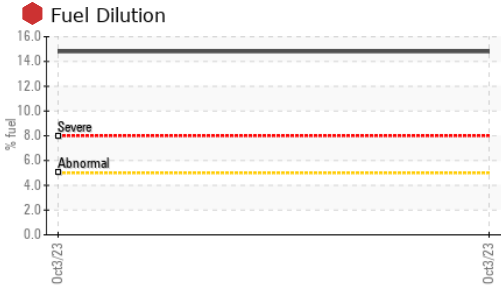
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>206</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>35</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Fuel	%	ASTM D7593*	>5	<b>14.8</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.8</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>18.2</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>12.4</b>	---	---



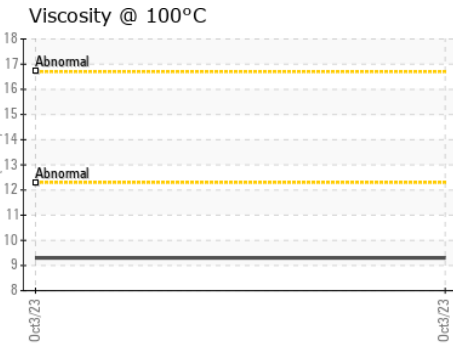
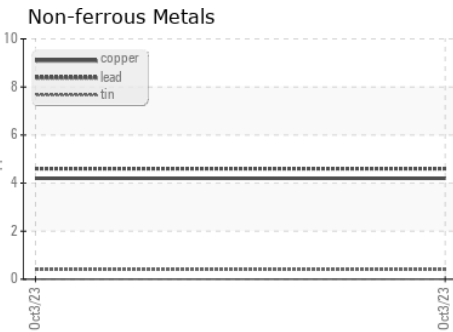
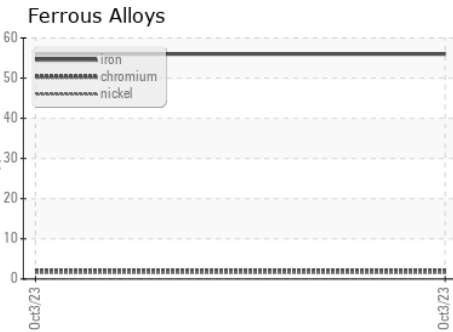
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
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	VLITE	---
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 D7279(m)	9.3	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GREAT LAKES YATCH SERVICES**  
**Sample No.** : WC0844446 **Received** : 04 Oct 2023 **70 BRIMLEY RD SOUTH**  
**Lab Number** : **02586707** **Diagnosed** : 05 Oct 2023 **TORONTO, ON**  
**Unique Number** : 5655773 **Diagnostician** : Kevin Marson **CA M1M 3W3**  
**Test Package** : TEST ( Additional Tests: FT-IR, FuelDilution, ICP, KV100, PercentFuel, Spat ) **Contact: Alicia Dudezki**

To discuss this sample report, contact Customer Service at 1-800-268-2131. info@glys.ca  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (416)266-4376  
 Validity of results and interpretation are based on the sample and information as supplied. F: