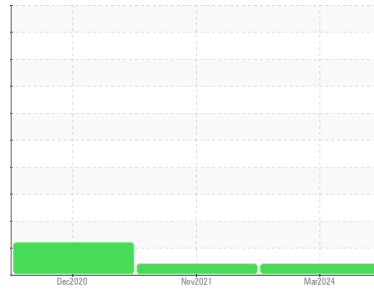




# OIL ANALYSIS REPORT

## Sample Rating Trend



## VISCOSITY



Machine Id  
**BASS PRO SHOPS**  
 Component  
**Diesel Engine**  
 Fluid  
**SHELL 15W40 (7 GAL)**

### DIAGNOSIS

#### Recommendation

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

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0858817</b>	WC0508952	WC0508950
Sample Date	Client Info			<b>11 Mar 2024</b>	11 Nov 2021	23 Dec 2020
Machine Age	hrs	Client Info		<b>494</b>	464	446
Oil Age	hrs	Client Info		<b>31</b>	22	39
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	ATTENTION

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	▲ 3.6
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

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

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>66</b>	28	21
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>67</b>	60	59
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>398</b>	615	681
Calcium	ppm	ASTM D5185m		<b>1692</b>	1313	1236
Phosphorus	ppm	ASTM D5185m		<b>945</b>	922	956
Zinc	ppm	ASTM D5185m		<b>1154</b>	1135	1018
Sulfur	ppm	ASTM D5185m		<b>3941</b>	2792	2604

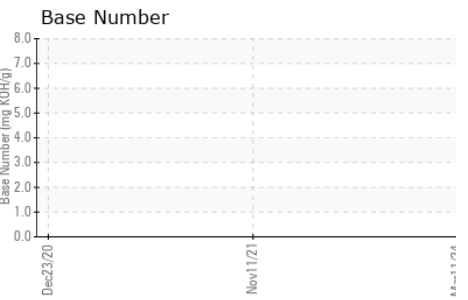
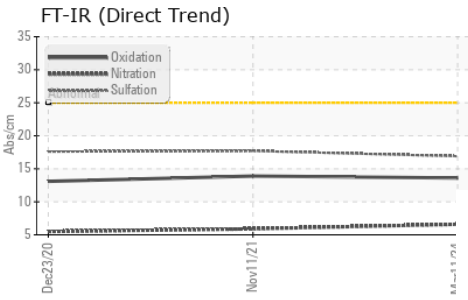
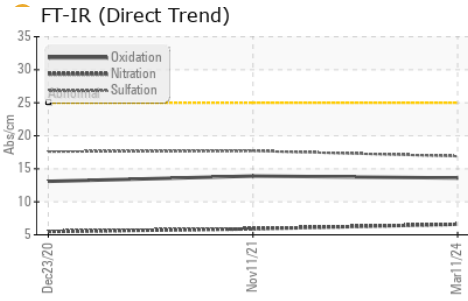
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	2	2
Sodium	ppm	ASTM D5185m	>150	<b>&lt;1</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>6.6</b>	5.9	5.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>16.9</b>	17.7	17.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.6</b>	13.9	13.1
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.6</b>	---	---



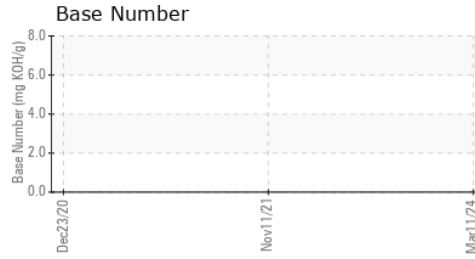
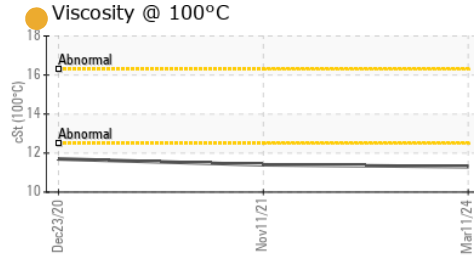
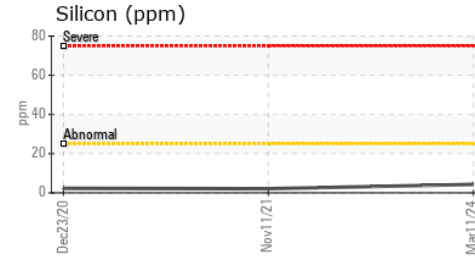
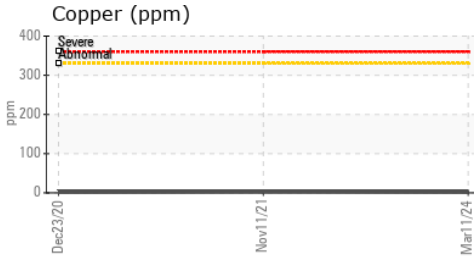
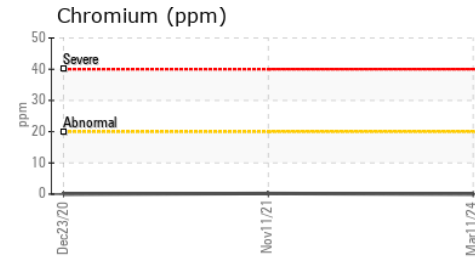
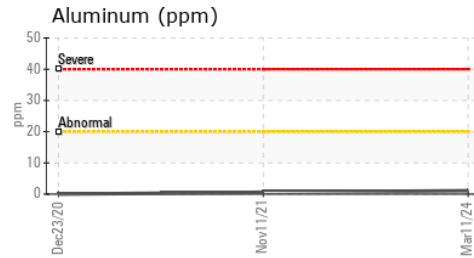
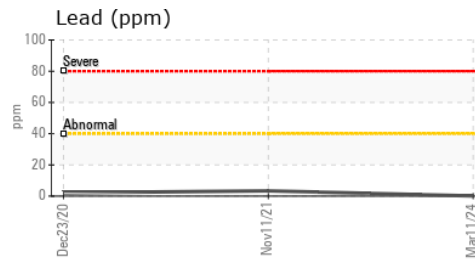
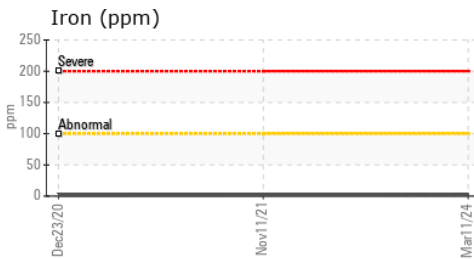
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	<span style="color: orange;">●</span> 11.3	<span style="color: orange;">●</span> 11.4	<span style="color: orange;">●</span> 11.7

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0858817      **Received** : 08 Apr 2024  
**Lab Number** : 06142001      **Tested** : 09 Apr 2024  
**Unique Number** : 10966809      **Diagnosed** : 10 Apr 2024 - Don Baldrige  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**ALTERNATIVE POWER**  
 1000 NORTHGATE CT  
 MORRISVILLE, NC  
 US 27560

Contact: TERESA CHESTER  
 teresa.chester@bittingelectric.com

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)

T:  
F: