



**OIL ANALYSIS REPORT**

WEAR	<b>ABNORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**BLUE BIRD 7**  
Component  
**Diesel Engine**  
Fluid  
**TRC MOLY XL PROSPEC III 15W40 (17 QTS)**

**RECOMMENDATION**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR06085461</b>	TR05676828	---
Sample Date		Client Info		<b>08 Feb 2024</b>	25 Oct 2022	---
Machine Age	mls	Client Info		<b>0</b>	170501	---
Oil Age	mls	Client Info		<b>0</b>	11000	---
Filter Age	mls	Client Info		<b>0</b>	11000	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>ABNORMAL</b>	ABNORMAL	---

**WEAR**

The aluminum level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>130	<b>83</b>	120	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	6	---
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	2	---
Titanium	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>▲ 28</b>	▲ 32	---
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>125	<b>5</b>	6	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

**CONTAMINATION**

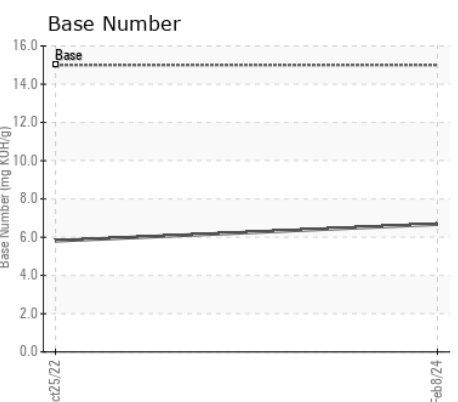
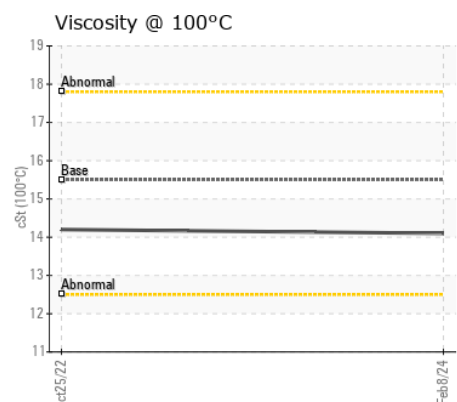
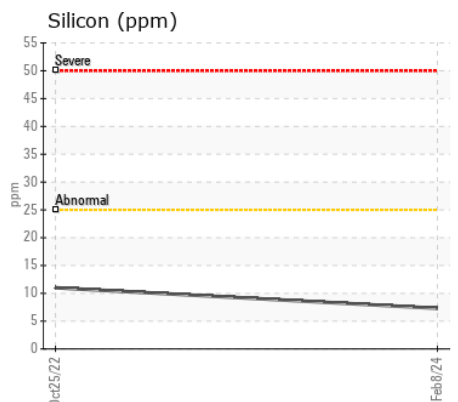
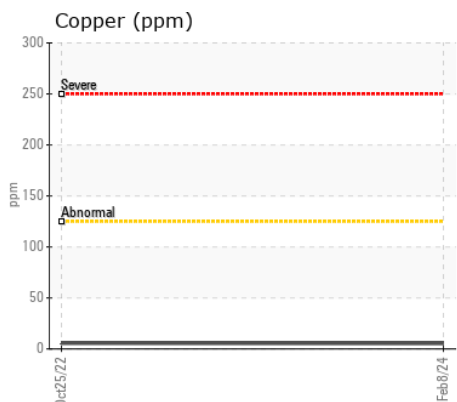
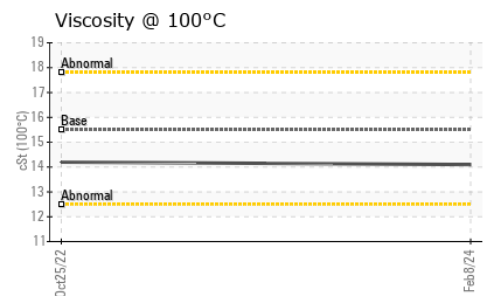
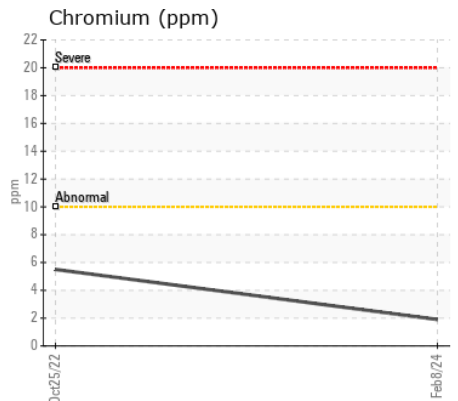
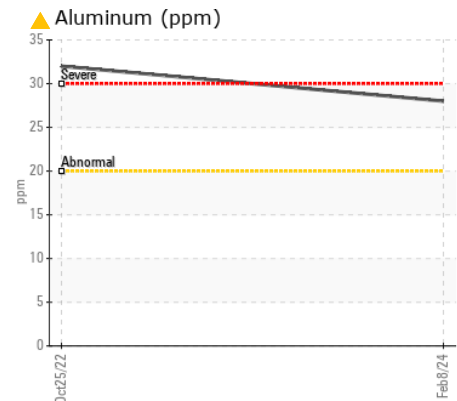
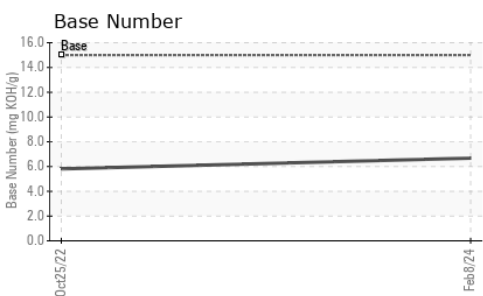
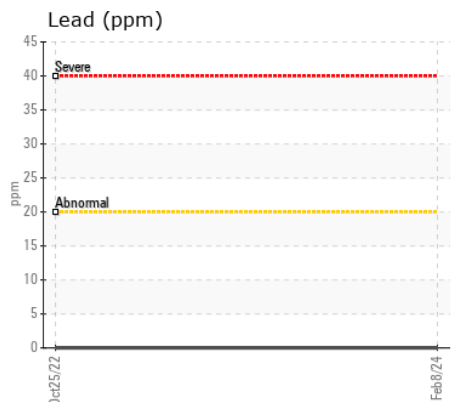
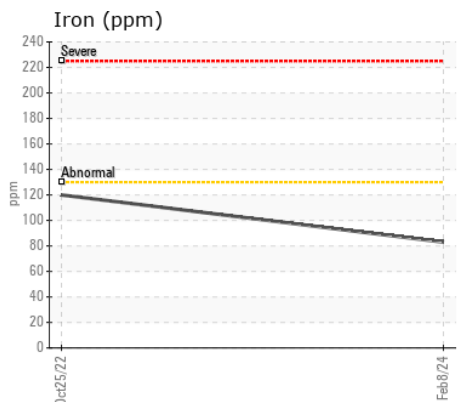
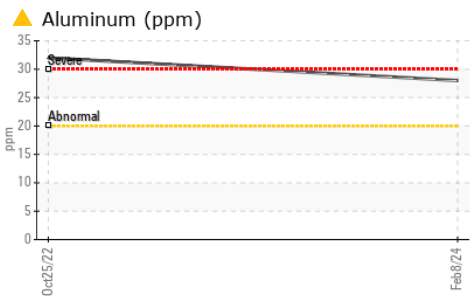
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>17</b>	18	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	*ASTM D7844	>6	<b>2.3</b>	1.4	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>13.8</b>	13.0	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>27.3</b>	26.8	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

**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.

Sodium	ppm	ASTM D5185m		<b>4</b>	8	---
Boron	ppm	ASTM D5185m		<b>3</b>	51	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>61</b>	20	---
Manganese	ppm	ASTM D5185m		<b>1</b>	2	---
Magnesium	ppm	ASTM D5185m		<b>943</b>	344	---
Calcium	ppm	ASTM D5185m	4500	<b>1227</b>	1828	---
Phosphorus	ppm	ASTM D5185m		<b>957</b>	858	---
Zinc	ppm	ASTM D5185m	1400	<b>1335</b>	1155	---
Sulfur	ppm	ASTM D5185m		<b>3155</b>	3576	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>21.5</b>	21.8	---
Base Number (BN)	mg KOH/g	ASTM D2896	15	<b>6.68</b>	5.81	---
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.1</b>	14.2	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06085461 **Received** : 09 Feb 2024  
**Lab Number** : 06085461 **Tested** : 12 Feb 2024  
**Unique Number** : 10872906 **Diagnosed** : 12 Feb 2024 - Jonathan Hester  
**Test Package** : MOB 2

**BUCHANAN COMMUNITY SCHOOLS**  
 401 W CHICAGO  
 BUCHANAN, MI  
 US 49107  
 Contact: BOB MCCALL

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)

T:  
F: