



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**[331084]**  
 Machine Id  
**B-I-N2**  
 Component  
**Diesel Engine**  
 Fluid  
**VALVOLINE PREMIUM BLUE 2000 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CU0022066</b>	---	---
Sample Date		Client Info		<b>18 Dec 2023</b>	---	---
Machine Age	hrs	Client Info		<b>62</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>N/A</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>65	<b>7</b>	---	---
Chromium	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>6	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>13	<b>1</b>	---	---
Copper	ppm	ASTM D5185(m)	>65	<b>4</b>	---	---
Tin	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---

## CONTAMINATION

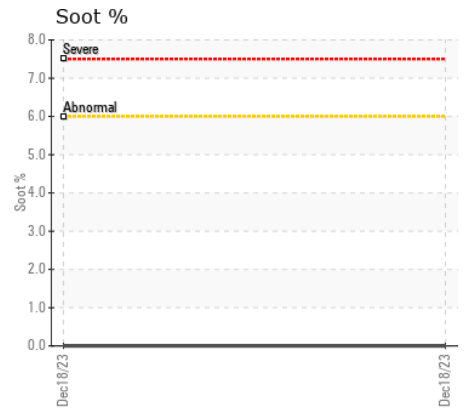
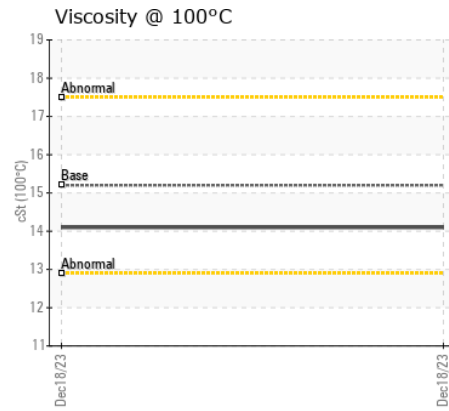
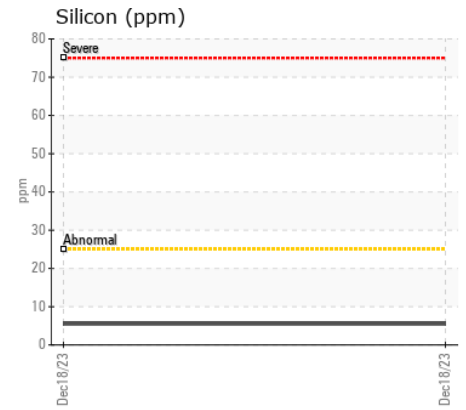
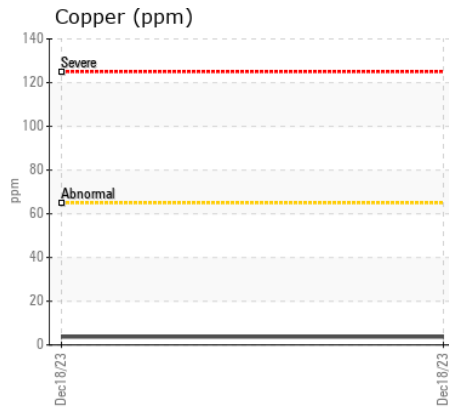
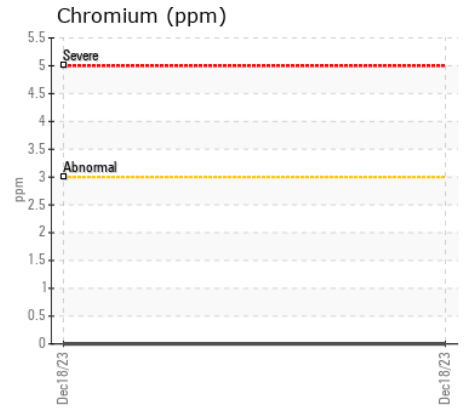
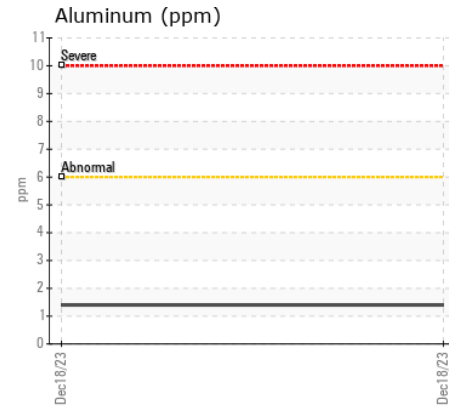
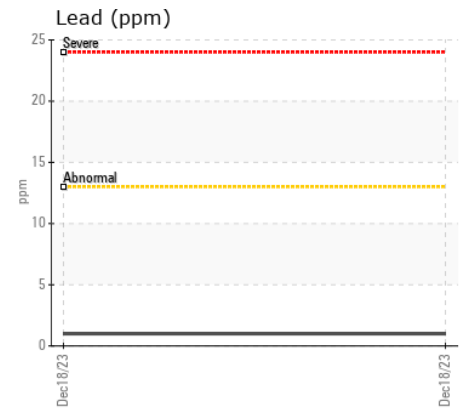
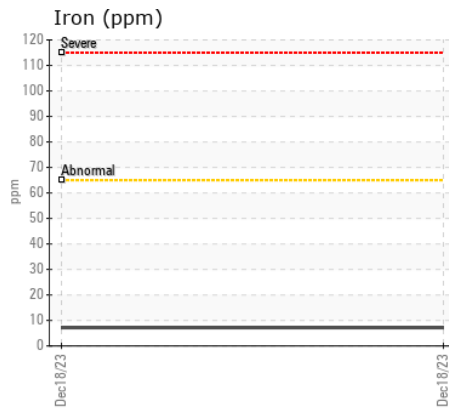
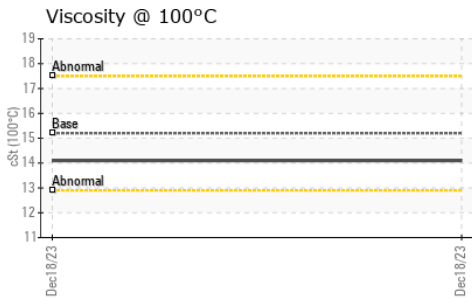
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Glycol		WC Method		<b>NEG</b>	---	---
Soot %	%	ASTM D7844*	>6	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.7</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>39</b>	---	---
Barium	ppm	ASTM D5185(m)		<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>43</b>	---	---
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185(m)		<b>694</b>	---	---
Calcium	ppm	ASTM D5185(m)		<b>1498</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>739</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>835</b>	---	---
Sulfur	ppm	ASTM D5185(m)		<b>2216</b>	---	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.0</b>	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.2	<b>14.1</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0022066  
**Lab Number** : 02604391  
**Unique Number** : 5697476  
**Test Package** : MOB 1  
**Received** : 20 Dec 2023  
**Tested** : 20 Dec 2023  
**Diagnosed** : 20 Dec 2023 - Wes Davis

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