



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area  
**BEANFIELD TECHNOLOGIES**

Machine Id  
**PE4045L127909**

Component  
**Diesel Engine**

Fluid  
**VALVOLINE 15W40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>CU0023261</b>	CU0020833	---
Sample Date		Client Info		<b>09 Jun 2024</b>	17 Feb 2023	---
Machine Age	hrs	Client Info		<b>0</b>	6	---
Oil Age	hrs	Client Info		<b>0</b>	1	---
Filter Age	hrs	Client Info		<b>0</b>	1	---
Oil Changed		Client Info		<b>N/A</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>51	<b>3</b>	3	---
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	---
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>31	<b>&lt;1</b>	1	---
Lead	ppm	ASTM D5185(m)	>26	<b>0</b>	<1	---
Copper	ppm	ASTM D5185(m)	>26	<b>5</b>	<1	---
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

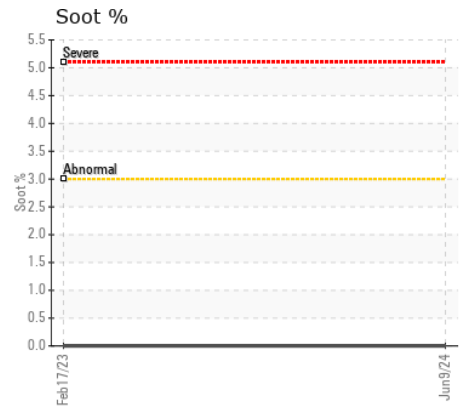
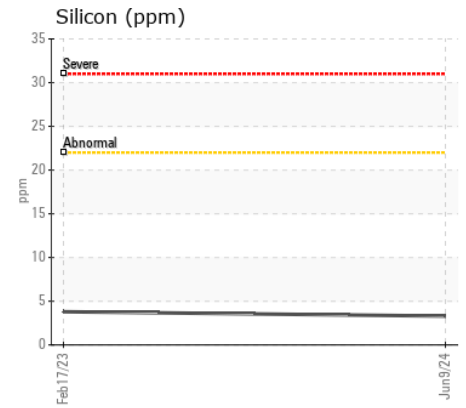
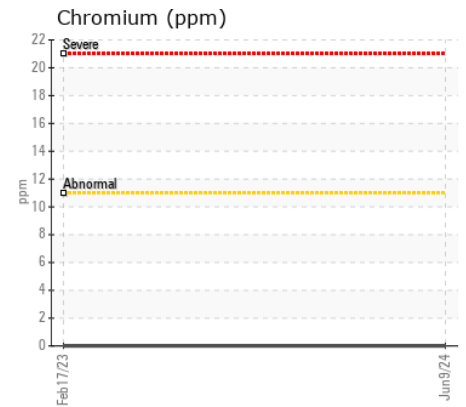
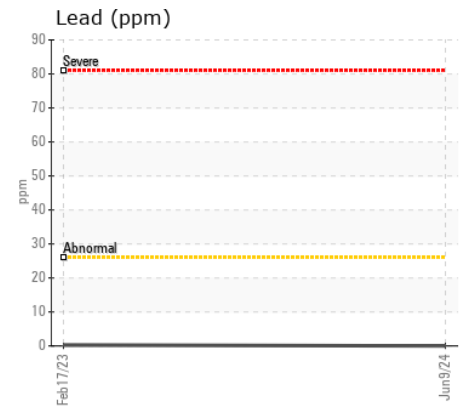
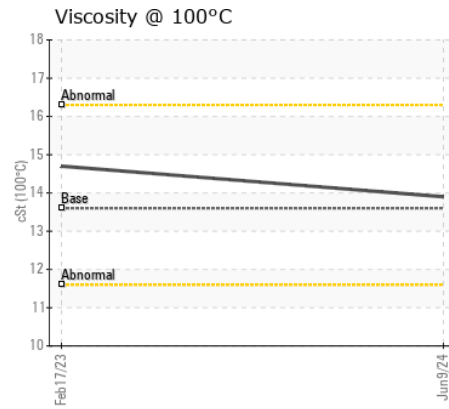
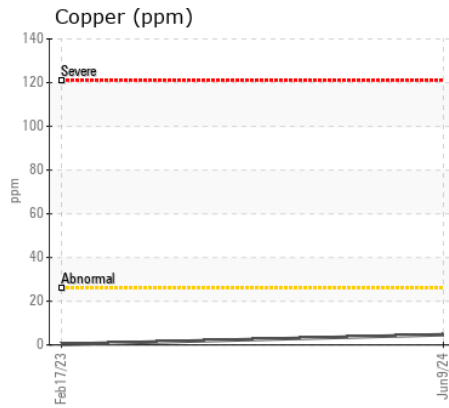
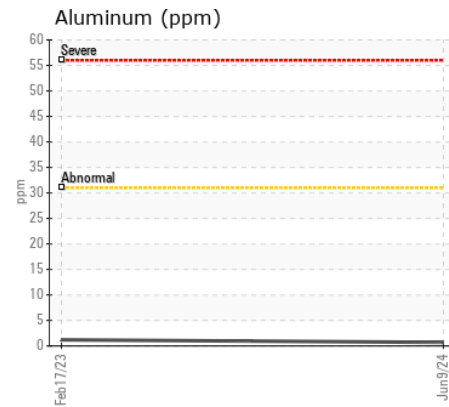
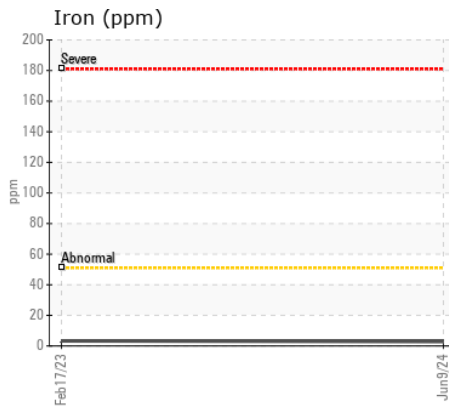
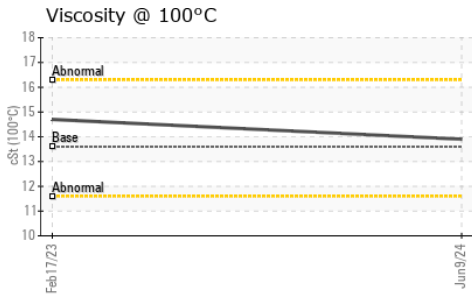
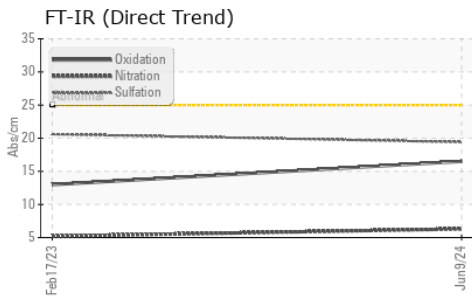
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>22	<b>3</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	---
Fuel		WC Method	>2.1	<b>&lt;1.0</b>	<1.0	---
Water		WC Method	>0.21	<b>NEG</b>	NEG	---
Glycol		WC Method		<b>NEG</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>6.3</b>	5.2	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.4</b>	20.6	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.21	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>31	<b>2</b>	2	---
Boron	ppm	ASTM D5185(m)	39	<b>33</b>	6	---
Barium	ppm	ASTM D5185(m)	1	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	49	<b>47</b>	60	---
Manganese	ppm	ASTM D5185(m)	1	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	616	<b>810</b>	868	---
Calcium	ppm	ASTM D5185(m)	1554	<b>1156</b>	1250	---
Phosphorus	ppm	ASTM D5185(m)	899	<b>772</b>	1092	---
Zinc	ppm	ASTM D5185(m)	1069	<b>896</b>	1164	---
Sulfur	ppm	ASTM D5185(m)	2624	<b>2112</b>	2919	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.5</b>	13.0	---
Visc @ 100°C	cSt	ASTM D7279(m)	13.6	<b>13.9</b>	14.7	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0023261  
**Lab Number** : 02640708  
**Unique Number** : 5789870  
**Test Package** : MOB 1 ( Additional Tests: Visual )

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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.