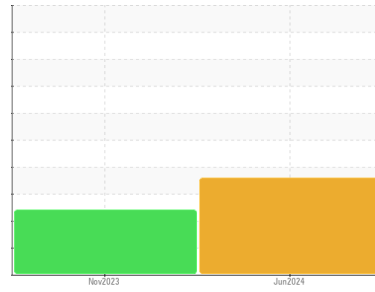




# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area

[69256]

Machine Id

**VOLVO VNL760 4664**

Component

**Diesel Engine**

Fluid

**PETRO CANADA DURON-E XL SYN BLEND 10W30 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for faulty combustion and a possible overheat condition. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

### ▲ Wear

Nickel ppm levels are marginal. All other component wear rates are normal.

### ▲ Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is a moderate concentration of dirt present in the oil.

### ▲ Fluid Condition

A small degree of oil oxidation was indicated. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0948224</b>	WC0869683	---
Sample Date	Client Info		<b>21 Jun 2024</b>	10 Nov 2023	---
Machine Age	kms	Client Info	<b>208780</b>	68130	---
Oil Age	kms	Client Info	<b>0</b>	68130	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	1.1	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>81</b>	95
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	2
Nickel	ppm	ASTM D5185(m)	>2	<b>▲ 2</b>	▲ 7
Titanium	ppm	ASTM D5185(m)		<b>&lt;1</b>	0
Silver	ppm	ASTM D5185(m)	>2	<b>2</b>	2
Aluminum	ppm	ASTM D5185(m)	>25	<b>20</b>	31
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	1
Copper	ppm	ASTM D5185(m)	>330	<b>47</b>	26
Tin	ppm	ASTM D5185(m)	>15	<b>6</b>	5
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	<b>21</b>	25
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	<1
Molybdenum	ppm	ASTM D5185(m)	60	<b>113</b>	137
Manganese	ppm	ASTM D5185(m)	0	<b>4</b>	4
Magnesium	ppm	ASTM D5185(m)	1010	<b>647</b>	743
Calcium	ppm	ASTM D5185(m)	1070	<b>1609</b>	1573
Phosphorus	ppm	ASTM D5185(m)	1150	<b>690</b>	700
Zinc	ppm	ASTM D5185(m)	1270	<b>854</b>	851
Sulfur	ppm	ASTM D5185(m)	2060	<b>1834</b>	1928
Lithium	ppm	ASTM D5185(m)		<b>1</b>	1

## CONTAMINANTS

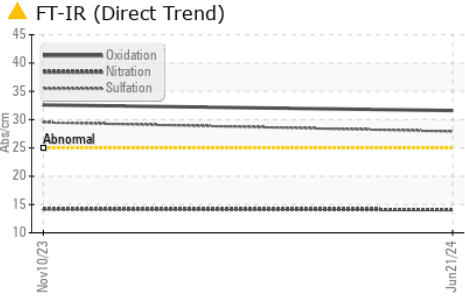
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>▲ 42</b>	44
Sodium	ppm	ASTM D5185(m)		<b>6</b>	6
Potassium	ppm	ASTM D5185(m)	>20	<b>52</b>	82

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0.4</b>	0.6
Nitration	Abs/cm	ASTM D7624*	>20	<b>14.1</b>	14.2
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>27.9</b>	29.5



# OIL ANALYSIS REPORT

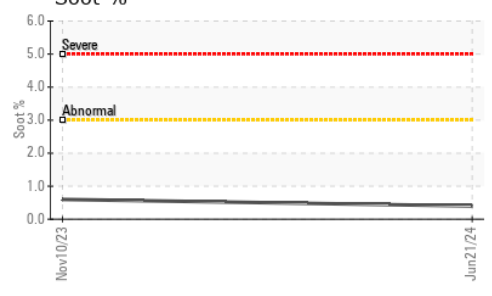
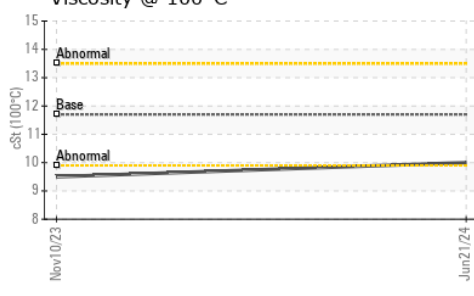
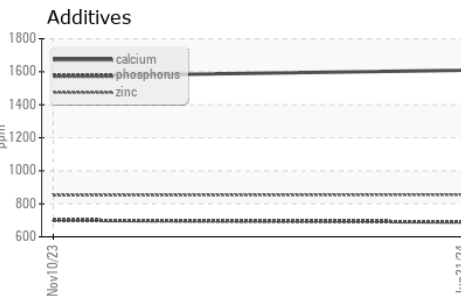
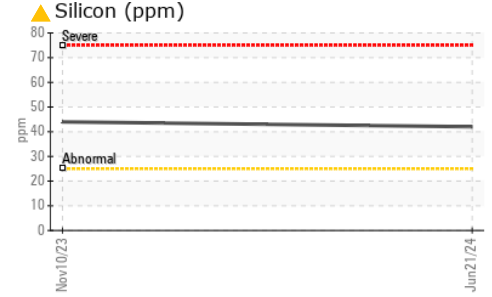
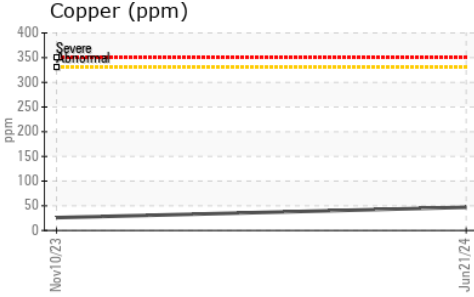
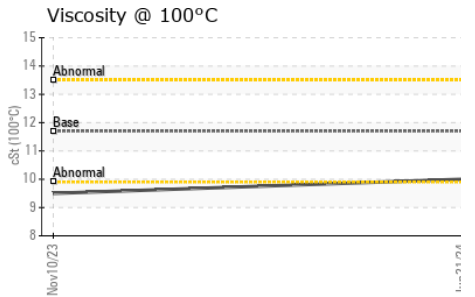
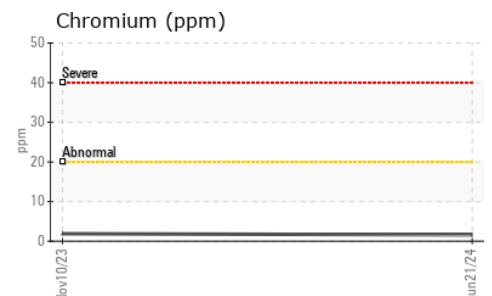
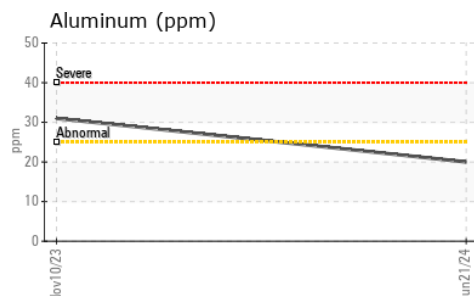
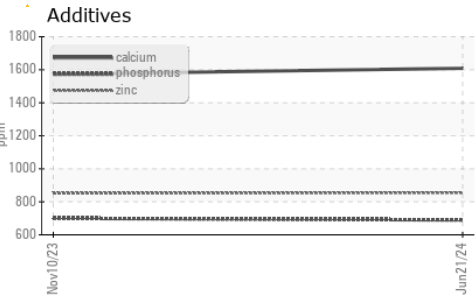
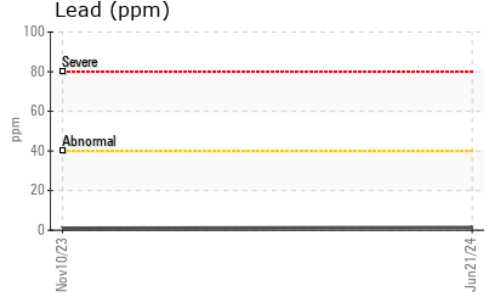
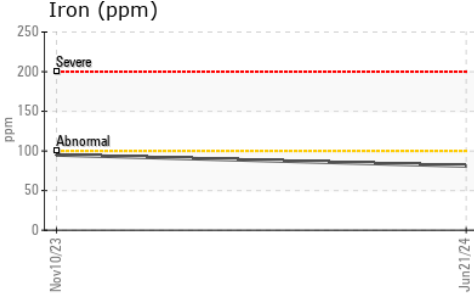
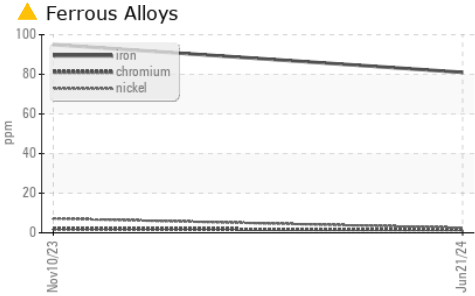


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	▲ 31.6	▲ 32.6	---

VISUAL		method	limit/base	current	history1	history2
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 D7279(m)	11.70	10.0	▲ 9.5	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0948224  
**Lab Number** : 02644090  
**Unique Number** : 5801629  
**Test Package** : MOB 1  
**Received** : 26 Jun 2024  
**Tested** : 26 Jun 2024  
**Diagnosed** : 26 Jun 2024 - Kevin Marson

**PERFORMANCE EQUIPMENT - VISION TRUCK**  
 415 EVANS AVENUE  
 ETOBICOKE, ON  
 CA M8W 0B3  
 Contact: Service  
 etobservice@visiontruckgroup.com

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.