



# OIL ANALYSIS REPORT

Sample Rating Trend



GLYCOL



Machine Id  
**VOLVO VNL740 4477**

Component  
**Diesel Engine**

Fluid  
**PETRO CANADA DURON SAE 10W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Check for low coolant level. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated.

### Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear. The condition of the oil is acceptable for the time in service (see recommendation).

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0831145</b>	---	---
Sample Date	Client Info		<b>12 Aug 2023</b>	---	---
Machine Age	kms	Client Info	<b>641191</b>	---	---
Oil Age	kms	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m) >100	<b>▲ 108</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>2</b>	---	---
Nickel	ppm	ASTM D5185(m) >2	<b>1</b>	---	---
Titanium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	---	---
Aluminum	ppm	ASTM D5185(m) >25	<b>9</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>12</b>	---	---
Tin	ppm	ASTM D5185(m) >15	<b>1</b>	---	---
Antimony	ppm	ASTM D5185(m)	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 1	<b>2</b>	---	---
Barium	ppm	ASTM D5185(m) 1	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 1	<b>67</b>	---	---
Manganese	ppm	ASTM D5185(m) 1	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185(m) 10	<b>974</b>	---	---
Calcium	ppm	ASTM D5185(m) 2942	<b>1306</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 1102	<b>1093</b>	---	---
Zinc	ppm	ASTM D5185(m) 1351	<b>1273</b>	---	---
Sulfur	ppm	ASTM D5185(m) 3903	<b>2289</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>8</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>▲ 161</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>58</b>	---	---
Glycol	%	ASTM D7922*	<b>0.0</b>	---	---

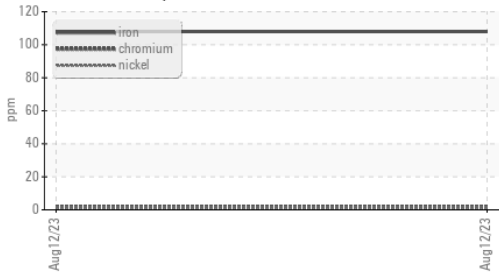
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>1</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>12.7</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>28.3</b>	---	---



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### ▲ Ferrous Alloys



### FLUID DEGRADATION

Method	Limit/Base	Current	History1	History2
Oxidation	Abs./1mm ASTM D7414*	>25	---	---

### VISUAL

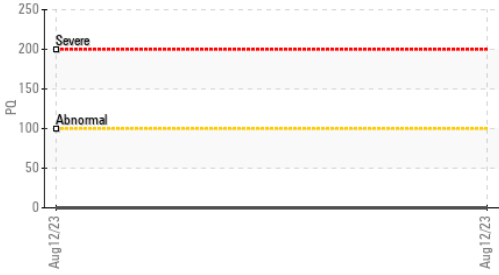
Method	Limit/Base	Current	History1	History2
Emulsified Water	scalar Visual*	>0.2	---	---
Free Water	scalar Visual*	---	---	---

### FLUID PROPERTIES

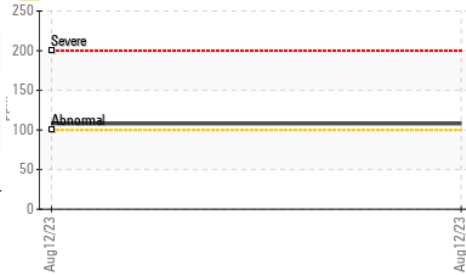
Method	Limit/Base	Current	History1	History2
Visc @ 100°C	cSt ASTM D7279(m)	11.4	---	---

### GRAPHS

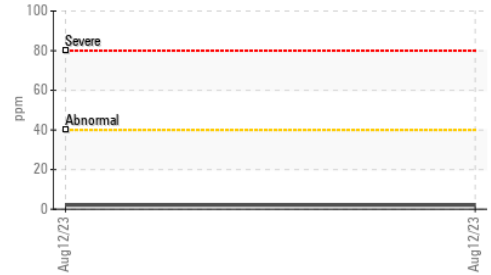
### PQ



### ▲ Iron (ppm)



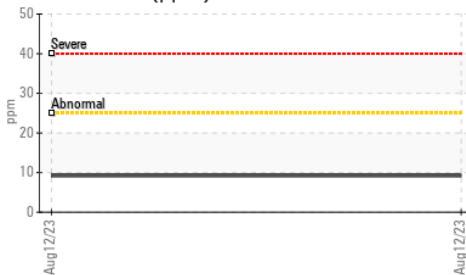
### Lead (ppm)



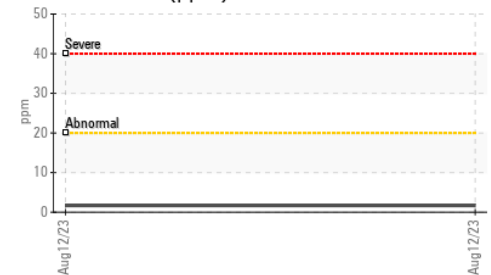
### Viscosity @ 100°C



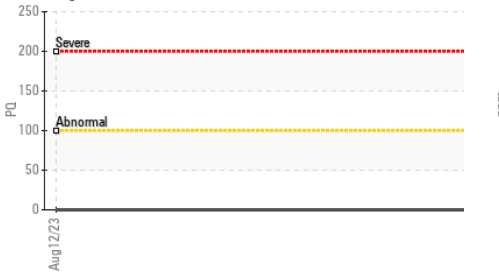
### Aluminum (ppm)



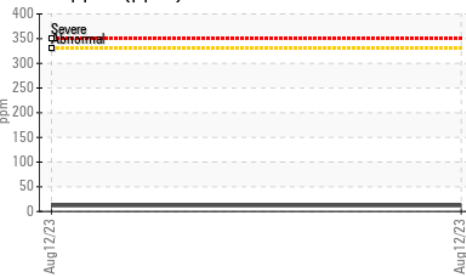
### Chromium (ppm)



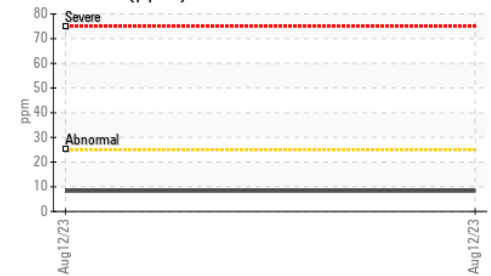
### PQ



### Copper (ppm)



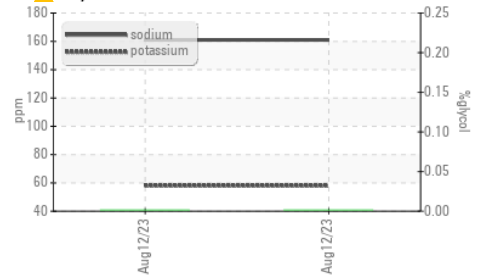
### Silicon (ppm)



### Viscosity @ 100°C



### ▲ Glycol Contamination



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK  
**Sample No.** : WC0831145 **Received** : 21 Aug 2023 415 EVANS AVENUE  
**Lab Number** : 02577047 **Diagnosed** : 22 Aug 2023 ETOBICOKE, ON  
**Unique Number** : 5630107 **Diagnostician** : Kevin Marson CA M8W 0B3  
**Test Package** : MOB 1 ( Additional Tests: Glycol, PQ ) Contact: Service

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