



# OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Machine Id  
**VOLVO VNL 4479**

Component  
**Diesel Engine**

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



## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

Nickel ppm levels are abnormal. Exhaust valve wear is indicated.

### Contamination

Test for glycol is positive. There is a high amount of fuel present in the oil. There is a moderate concentration of glycol present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0869682</b>	---	---
Sample Date	Client Info		<b>26 Oct 2023</b>	---	---
Machine Age	mths	Client Info	<b>56</b>	---	---
Oil Age	mths	Client Info	<b>7</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>98</b>	---
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	---
Nickel	ppm	ASTM D5185(m)	>2	<b>3</b>	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---
Silver	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>12</b>	---
Lead	ppm	ASTM D5185(m)	>40	<b>2</b>	---
Copper	ppm	ASTM D5185(m)	>330	<b>10</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)	2	<b>11</b>	---
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	---
Molybdenum	ppm	ASTM D5185(m)	50	<b>53</b>	---
Manganese	ppm	ASTM D5185(m)	0	<b>1</b>	---
Magnesium	ppm	ASTM D5185(m)	950	<b>750</b>	---
Calcium	ppm	ASTM D5185(m)	1050	<b>979</b>	---
Phosphorus	ppm	ASTM D5185(m)	995	<b>866</b>	---
Zinc	ppm	ASTM D5185(m)	1180	<b>1003</b>	---
Sulfur	ppm	ASTM D5185(m)	2600	<b>2605</b>	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>9</b>	---
Sodium	ppm	ASTM D5185(m)		<b>52</b>	---
Potassium	ppm	ASTM D5185(m)	>20	<b>30</b>	---
Fuel	%	ASTM D7593*	>6.0	<b>13.6</b>	---
Glycol	%	ASTM D7922*		<b>0.054</b>	---

## INFRA-RED

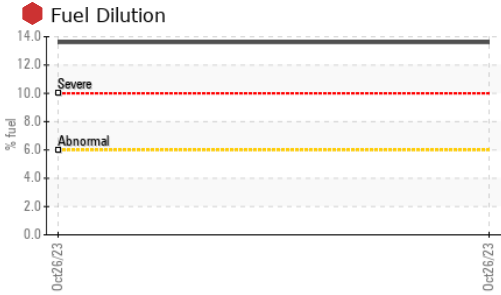
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>1</b>	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.9</b>	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>29.1</b>	---

## FLUID DEGRADATION

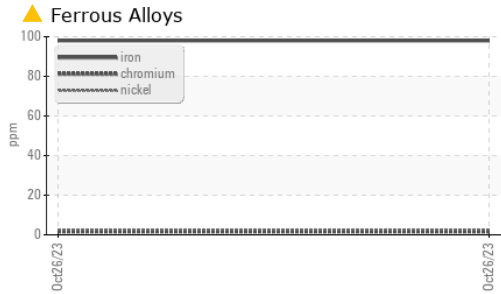
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>27.6</b>	---



# OIL ANALYSIS REPORT

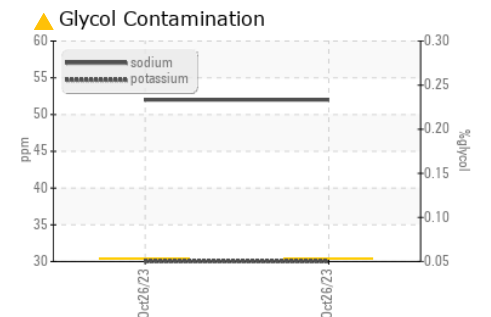
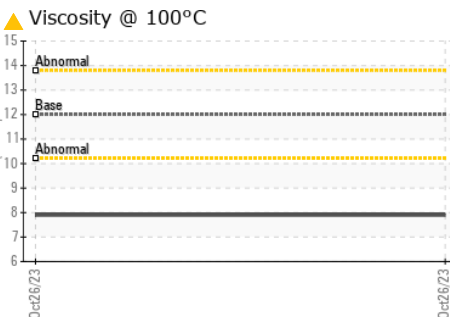
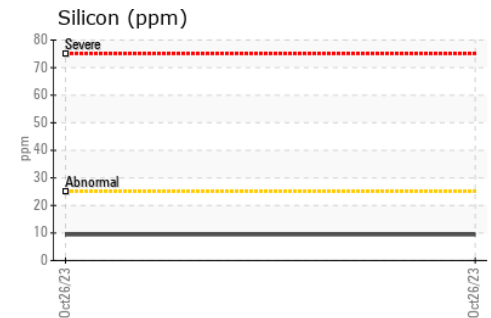
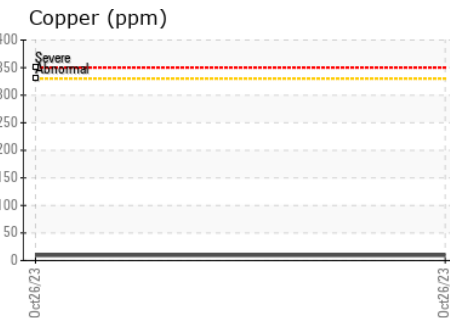
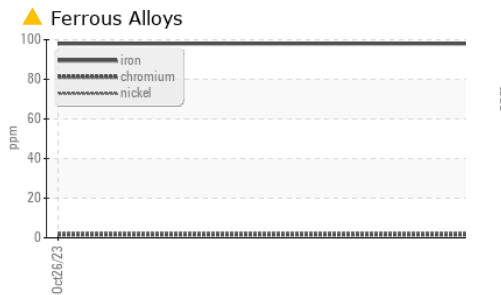
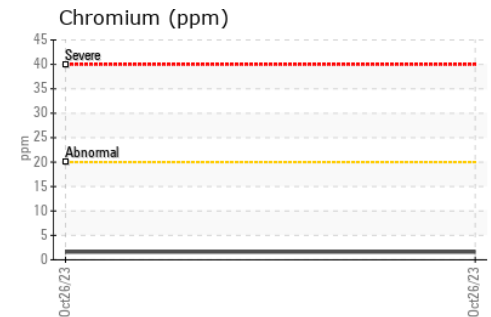
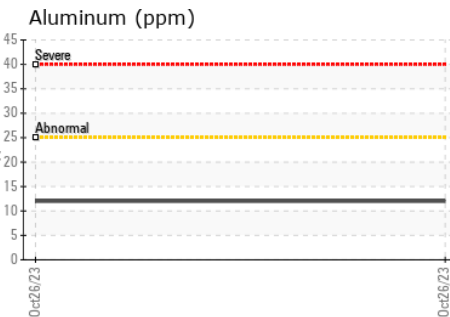
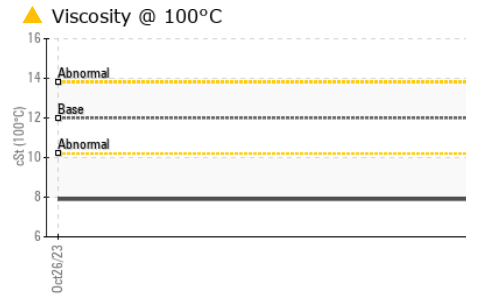
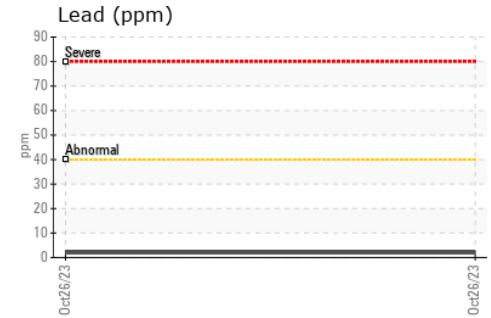
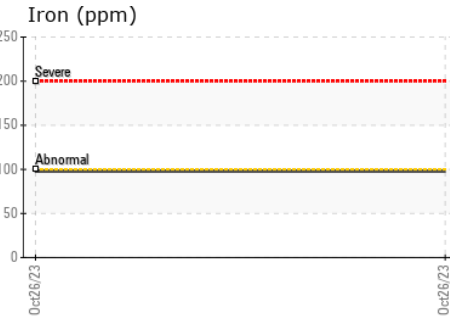


VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---
Free Water	scalar	Visual*		NEG	---



FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	▲ 7.9	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK  
**Sample No.** : WC0869682 **Received** : 30 Oct 2023 415 EVANS AVENUE  
**Lab Number** : 02592539 **Diagnosed** : 01 Nov 2023 ETOBICOKE, ON  
**Unique Number** : 5669618 **Diagnostician** : Kevin Marson CA M8W 0B3  
**Test Package** : MOB 1 ( Additional Tests: FUELDILUTION, Glycol, PercentFuel ) 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: