



# OIL ANALYSIS REPORT

Sample Rating Trend

DIRT

Area

[62307]

Machine Id

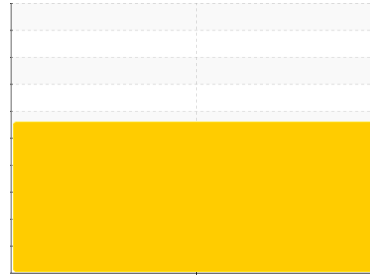
**VOLVO VNL740 4505**

Component

**Diesel Engine**

Fluid

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



## DIAGNOSIS

### Recommendation

Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil from the component if this has not already been done. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

Iron and nickel ppm levels are abnormal. Aluminum ppm levels are noted. Cylinder, crank, or cam shaft wear is indicated. Exhaust valve wear is indicated.

### Contamination

Water treatment chemicals present, indicating slow coolant leak. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Test for glycol is negative. High amount of ingressed dirt has caused abrasive wear to the component.

### 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>WC0853674</b>	---	---
Sample Date	Client Info		<b>02 Oct 2023</b>	---	---
Machine Age	kms	Client Info	<b>576968</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>▲ 116</b>	---	---
Chromium	ppm	ASTM D5185(m) >20	<b>3</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>17</b>	---	---
Lead	ppm	ASTM D5185(m) >40	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m) >330	<b>18</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>8</b>	---	---
Barium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m) 50	<b>74</b>	---	---
Manganese	ppm	ASTM D5185(m) 0	<b>2</b>	---	---
Magnesium	ppm	ASTM D5185(m) 950	<b>889</b>	---	---
Calcium	ppm	ASTM D5185(m) 1050	<b>1157</b>	---	---
Phosphorus	ppm	ASTM D5185(m) 995	<b>846</b>	---	---
Zinc	ppm	ASTM D5185(m) 1180	<b>1159</b>	---	---
Sulfur	ppm	ASTM D5185(m) 2600	<b>2206</b>	---	---
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

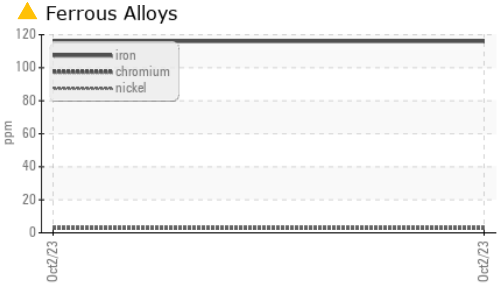
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	<b>▲ 31</b>	---	---
Sodium	ppm	ASTM D5185(m)	<b>▲ 1228</b>	---	---
Potassium	ppm	ASTM D5185(m) >20	<b>▲ 335</b>	---	---
Glycol	%	ASTM D7922*	<b>0.0</b>	---	---

## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>1.1</b>	---	---
Nitration	Abs/cm	ASTM D7624* >20	<b>15.1</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>28.7</b>	---	---



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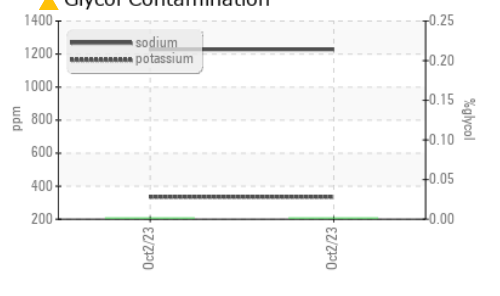
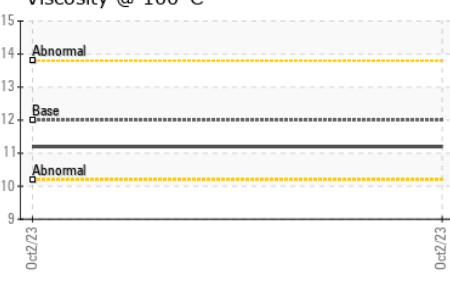
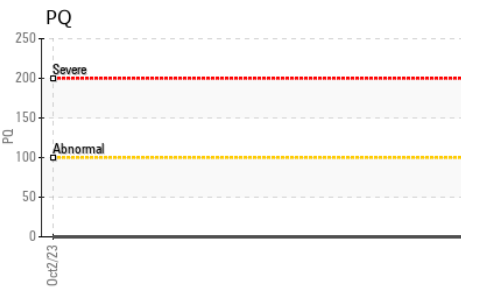
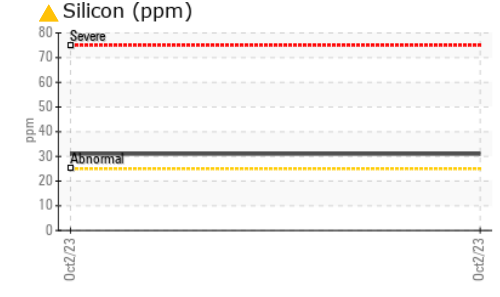
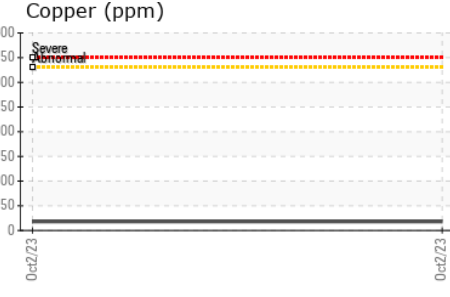
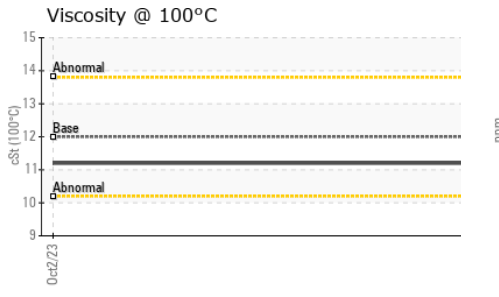
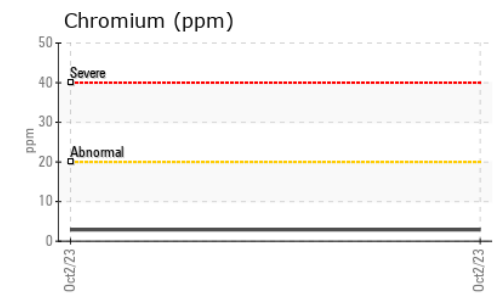
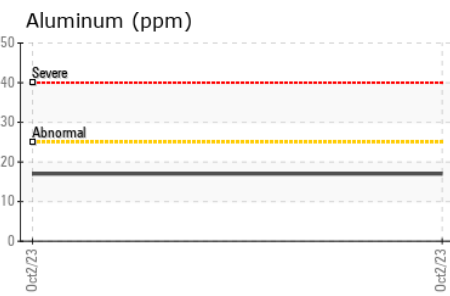
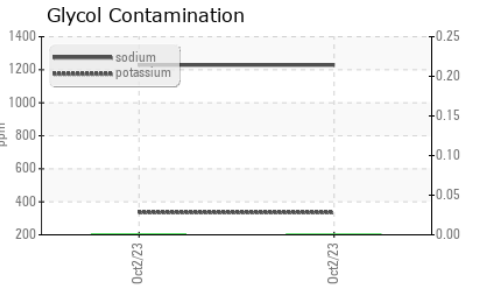
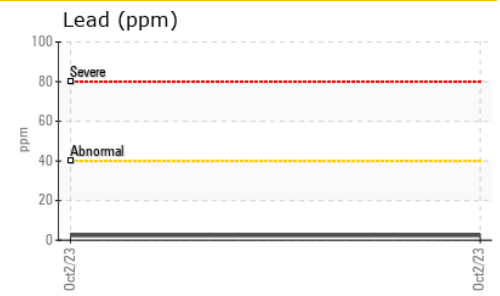
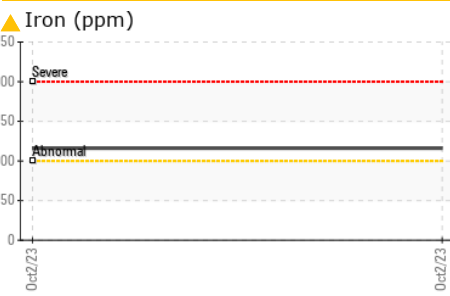
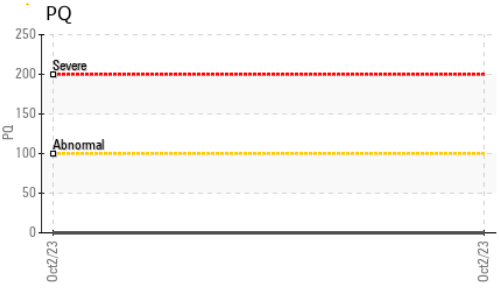


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs.:1mm	ASTM D7414*	>25	24.7	---	---

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	11.2	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **PERFORMANCE EQUIPMENT - VISION TRUCK**  
**Sample No.** : WC0853674 **Received** : 03 Oct 2023 **415 EVANS AVENUE**  
**Lab Number** : 02586330 **Diagnosed** : 03 Oct 2023 **ETOBICOKE, ON**  
**Unique Number** : 5655396 **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:**