



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**[61634]**  
 Machine Id  
**VOLVO VNL 4663**  
 Component  
**Diesel Engine**  
 Fluid  
**NOT GIVEN (--- GAL)**



## DIAGNOSIS

### Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

Fuel content negligible. 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 no indication of any contamination in the oil.

### Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0853693</b>	---	---
Sample Date	Client Info	<b>01 Sep 2023</b>	---	---
Machine Age	kms Client Info	<b>96725</b>	---	---
Oil Age	kms Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Changed</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## CONTAMINATION

method	limit/base	current	history1	history2
Glycol	WC Method	<b>NEG</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	<b>56</b>	---	---
Chromium	ppm ASTM D5185(m) >20	<b>2</b>	---	---
Nickel	ppm ASTM D5185(m) >2	<b>5</b>	---	---
Titanium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185(m) >2	<b>2</b>	---	---
Aluminum	ppm ASTM D5185(m) >25	<b>30</b>	---	---
Lead	ppm ASTM D5185(m) >40	<b>8</b>	---	---
Copper	ppm ASTM D5185(m) >330	<b>285</b>	---	---
Tin	ppm ASTM D5185(m) >15	<b>5</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)	<b>25</b>	---	---
Barium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---
Molybdenum	ppm ASTM D5185(m)	<b>112</b>	---	---
Manganese	ppm ASTM D5185(m)	<b>4</b>	---	---
Magnesium	ppm ASTM D5185(m)	<b>721</b>	---	---
Calcium	ppm ASTM D5185(m)	<b>1508</b>	---	---
Phosphorus	ppm ASTM D5185(m)	<b>798</b>	---	---
Zinc	ppm ASTM D5185(m)	<b>888</b>	---	---
Sulfur	ppm ASTM D5185(m)	<b>1831</b>	---	---
Lithium	ppm ASTM D5185(m)	<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	<b>42</b>	---	---
Sodium	ppm ASTM D5185(m)	<b>5</b>	---	---
Potassium	ppm ASTM D5185(m) >20	<b>87</b>	---	---
Fuel	% ASTM D7593* >6.0	<b>0.5</b>	---	---

## INFRA-RED

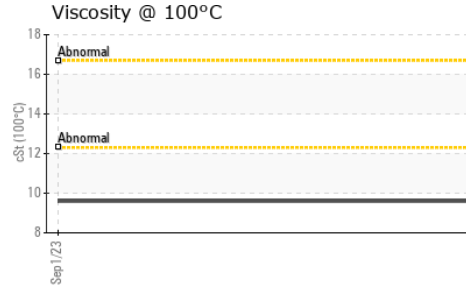
method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	<b>0.3</b>	---	---
Nitration	Abs/cm ASTM D7624* >20	<b>12.9</b>	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	<b>26.6</b>	---	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm ASTM D7414* >25	<b>26.1</b>	---	---



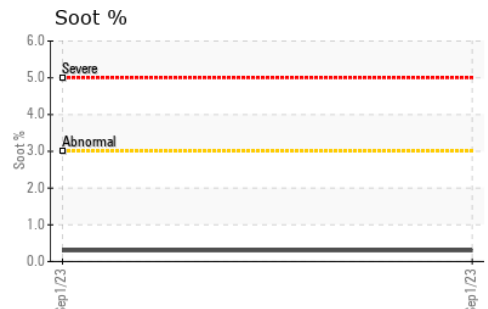
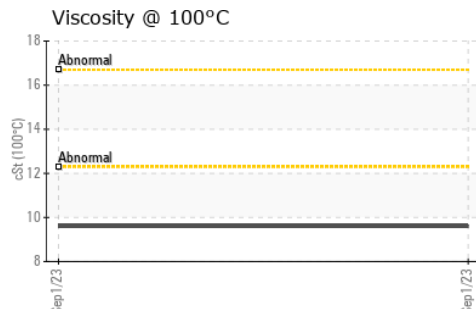
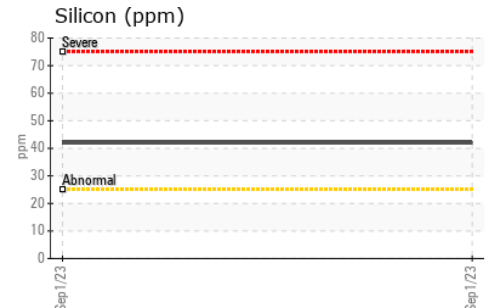
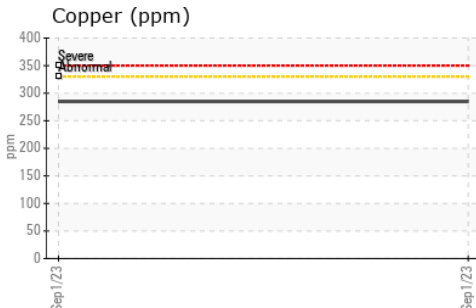
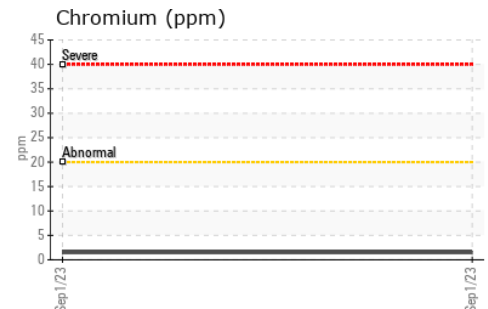
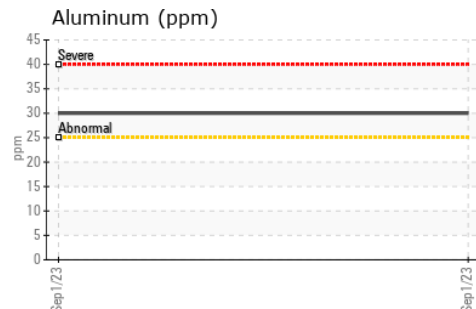
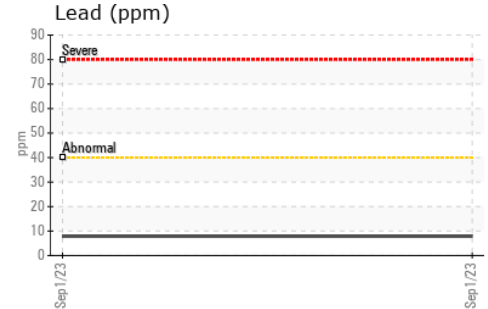
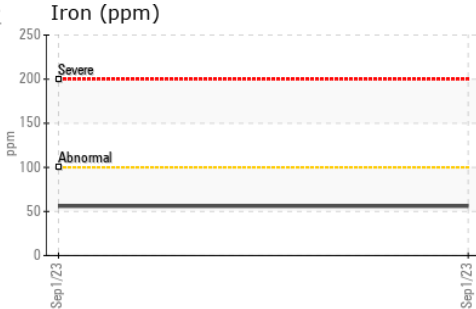
# OIL ANALYSIS REPORT



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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	<b>9.6</b>	---	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 PERFORMANCE EQUIPMENT - VISION TRUCK  
**Sample No.** : WC0853693 **Received** : 05 Sep 2023 **415 EVANS AVENUE**  
**Lab Number** : 02580275 **Diagnosed** : 06 Sep 2023 **ETOBICOKE, ON**  
**Unique Number** : 5633335 **Diagnostician** : Kevin Marson **CA M8W 0B3**  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, 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:**