

# VOLVO 4917 - DIESEL ENGINE

Sample No: WC0781417

Oil Type: SAE 10W30

## SAMPLE INFORMATION

Sample Number	WC0781417	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

### Vision Truck Group

300 Steelwell Road  
Brampton, ON  
CA L6T 5T3  
Contact: Service Manager  
HROMAS@VISIONTRUCKGROUP.COM  
T:  
F:

## OIL CONDITION

Visc @ 100°C	cSt	■ 8.9	---	---	---
Oxidation (PA)	%	■ 90	---	---	---

## CONTAMINATION

Water	%	■ NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 68	---	---	---
Sulfation (PA)	%	■ 74	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	▲ 45	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 39	---	---	---

## WEAR METALS

Iron	ppm	■ 36	---	---	---
Copper	ppm	■ 168	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 23	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 126	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	■ 0	---	---	---

## ADDITIVES

Calcium	ppm	■ 1472	---	---	---
Magnesium	ppm	■ 680	---	---	---
Zinc	ppm	■ 778	---	---	---
Phosphorus	ppm	■ 675	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 309	---	---	---

### Diagnosis

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. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. All other component wear rates are normal. We have assumed that this component is not breaking in (age of component not reported). 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. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: VIS300BRA  
Unique No: 5761888  
Signed: Kevin Marson  
Report Date: 17 Apr 2024

# GRAPHS

