

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

## 80085673 - DIESEL ENGINE

Sample No: VPA052234

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

### SAMPLE INFORMATION

Sample Number	VPA052234	---	---	---
Sample Date	25 Mar 2024	---	---	---
Machine Hours	8591	---	---	---
Oil Hours	350	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### CULLEN DIESEL POWER - 695335

9300 192 ST  
SURREY, BC  
CA V4N 3R8  
Contact: Michelle Sayers  
mns@cullendiesel.com  
T: (604)888-1211  
F:

### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.1	---	---	---
Oxidation (PA)	%	64	---	---	---

### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	81	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 2.2	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 9	---	---	---

### WEAR METALS

Iron	ppm	■ 8	---	---	---
Copper	ppm	■ <1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	1360	---	---	---
Magnesium	ppm	742	---	---	---
Zinc	ppm	787	---	---	---
Phosphorus	ppm	689	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 53	---	---	---

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. 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. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is acceptable for the time in service.

Depot: CULSUR  
Unique No: 5761572  
Signed: Kevin Marson  
Report Date: 15 Apr 2024

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## GRAPHS

