

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**JOSHUA V MILLER JOSH MILLER LUGGER LUGGER 6140 (S/N NOT GIVEN) - CENTER DIESEL ENGINE**

**Sample No:** VPA046491

**Oil Type:** MOBIL DELVAC 1300 SUPER15W40

## SAMPLE INFORMATION

Sample Number	VPA046491	---	---	---
Sample Date	08 Mar 2024	---	---	---
Machine Hours	48879	---	---	---
Oil Hours	210	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 6.8	---	---	---
Oxidation (PA)	%	66	---	---	---

## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	78	---	---	---
Sulfation (PA)	%	49	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 4	---	---	---

## WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 160	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

## ADDITIVES

Calcium	ppm	█ 1847	---	---	---
Magnesium	ppm	█ 941	---	---	---
Zinc	ppm	█ 1230	---	---	---
Phosphorus	ppm	█ 955	---	---	---
Barium	ppm	█ 3	---	---	---
Boron	ppm	█ 184	---	---	---

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## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VP619387

**Unique No:** 10940988

**Signed:** Sean Felton

**Report Date:** 26 Mar 2024

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## GRAPHS

