

# OIL ANALYSIS REPORT

**VOLVO  
PENTA**

**3401/2/60/3301 74586292 - STARBOARD DIESEL ENGINE**

**Sample No:** VPA047853

**Oil Type:** DIESEL ENGINE OIL SAE 15W40

## SAMPLE INFORMATION

Sample Number	VPA047853	---	---	---
Sample Date	10 Jul 2023	---	---	---
Machine Hours	18	---	---	---
Oil Hours	18	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	---	---	---
Base Number (BN)	mg KOH/g	█ 8.9	---	---	---
Oxidation (PA)	%	73	---	---	---

## CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	67	---	---	---
Sulfation (PA)	%	54	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 3	---	---	---

## WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 24	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 54	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 1437	---	---	---
Magnesium	ppm	█ 997	---	---	---
Zinc	ppm	█ 1066	---	---	---
Phosphorus	ppm	█ 871	---	---	---
Barium	ppm	█ 20	---	---	---
Boron	ppm	█ 66	---	---	---

### The Talaria Company

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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 suitable for further service.

**Depot:** VP592286

**Unique No:** 10551639

**Signed:** Don Baldrige

**Report Date:** 13 Jul 2023

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## GRAPHS

