

OIL ANALYSIS REPORT

VOLVO PENTA

SEA CUPPS SEA CUPPS VOLVO PENTA 2013645862 - STARBOARD DIESEL ENGINE

Sample No: VPA057269

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA057269	---	---	---
Sample Date	12 Dec 2023	---	---	---
Machine Hours	570	---	---	---
Oil Hours	12	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	55	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	45	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 4	---	---	---

WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 15	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 67	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1464	---	---	---
Magnesium	ppm	█ 491	---	---	---
Zinc	ppm	█ 1112	---	---	---
Phosphorus	ppm	█ 999	---	---	---
Barium	ppm	█ 12	---	---	---
Boron	ppm	122	---	---	---

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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: VP288530
Unique No: 10790337
Signed: Don Baldrige
Report Date: 18 Dec 2023

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GRAPHS

