

OIL ANALYSIS REPORT

VOLVO PENTA

NELSON JB VOLVO PENTA A1087625 - STARBOARD DIESEL ENGINE

Sample No: VPA036987

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

SAMPLE INFORMATION

Sample Number	VPA036987	VPA044083	---	---
Sample Date	30 Oct 2023	06 Nov 2022	---	---
Machine Hours	184	155	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 14.2	---	---
Base Number (BN)	mg KOH/g	█ 9.6	█ 7.9	---	---
Oxidation (PA)	%	54	71	---	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	43	65	---	---
Sulfation (PA)	%	50	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 13	---	---
Sodium	ppm	█ 0	█ 4	---	---
Potassium	ppm	█ 2	█ 3	---	---

WEAR METALS

Iron	ppm	█ 15	█ 13	---	---
Copper	ppm	█ 5	█ 7	---	---
Lead	ppm	█ 2	█ 3	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 5	█ 12	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 63	█ 79	---	---
Nickel	ppm	█ 1	█ 3	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1222	█ 2042	---	---
Magnesium	ppm	█ 731	112	---	---
Zinc	ppm	█ 1154	█ 1225	---	---
Phosphorus	ppm	█ 1072	█ 953	---	---
Barium	ppm	█ 5	█ 0	---	---
Boron	ppm	█ 17	█ 86	---	---

Point Judith Marina

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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: VP153811
Unique No: 10728549
Signed: Sean Felton
Report Date: 08 Nov 2023

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GRAPHS

