

OIL ANALYSIS REPORT

VOLVO PENTA

PETER FACKLER ALAN VOLVO PENTA 2204160652 - STARBOARD DIESEL ENGINE

Sample No: VPA041014

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

SAMPLE INFORMATION

Sample Number	VPA041014	VPA032864	---	---
Sample Date	20 Nov 2023	25 Oct 2021	---	---
Machine Hours	1773	1725	---	---
Oil Hours	48	68	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 10.2	---	---	---
Oxidation (PA)	%	57	60	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	45	49	---	---
Sulfation (PA)	%	52	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 7	---	---
Sodium	ppm	█ <1	█ <1	---	---
Potassium	ppm	█ <1	█ <1	---	---

WEAR METALS

Iron	ppm	█ 6	█ 6	---	---
Copper	ppm	█ 2	█ 4	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ <1	█ <1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 60	█ 66	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1087	█ 1152	---	---
Magnesium	ppm	█ 1020	█ 1020	---	---
Zinc	ppm	█ 1366	█ 1418	---	---
Phosphorus	ppm	█ 991	█ 1114	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 4	█ 8	---	---

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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: VP850387
Unique No: 10755177
Signed: Jonathan Hester
Report Date: 27 Nov 2023

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GRAPHS

