

OIL ANALYSIS REPORT

VOLVO PENTA

BRUCE GOODMAN VOLVO PENTA 7011359230 - STARBOARD DIESEL ENGINE

Sample No: VPA056661

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

SAMPLE INFORMATION

Sample Number	VPA056661	VPA039585	---	---
Sample Date	08 Sep 2023	21 Sep 2022	---	---
Machine Hours	646	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 13.2	---	---
Base Number (BN)	mg KOH/g	█ 9.7	█ 11.4	---	---
Oxidation (PA)	%	57	60	---	---

CONTAMINATION

Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	48	49	---	---
Sulfation (PA)	%	53	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 4	---	---
Sodium	ppm	█ 1	█ <1	---	---
Potassium	ppm	█ <1	█ <1	---	---

WEAR METALS

Iron	ppm	█ 3	█ 2	---	---
Copper	ppm	█ 12	█ 10	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 4	█ 1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 61	█ 58	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	█ 1105	█ 1049	---	---
Magnesium	ppm	█ 1038	█ 890	---	---
Zinc	ppm	█ 1365	█ 1182	---	---
Phosphorus	ppm	█ 1124	█ 997	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 1	█ 3	---	---

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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: VP1174336
Unique No: 10647186
Signed: Jonathan Hester
Report Date: 19 Sep 2023

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GRAPHS

