

OIL ANALYSIS REPORT



JOHN BOYLE ES 7718120 VOLVO PENTA D6-435D-F A698128 - PORT DIESEL ENGINE

Sample No: VPA055268

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

SAMPLE INFORMATION

Sample Number	VPA055268	VPA025651	VPA027726	---
Sample Date	20 Dec 2023	02 Oct 2020	27 Nov 2019	---
Machine Hours	466	200	63	---
Oil Hours	0	0	63	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

Pacific Power Group - VP981534

7215 S 228th St

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US 98032

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F:

OIL CONDITION

Visc @ 100°C	cSt	13.4	13.3	13.8	---
Base Number (BN)	mg KOH/g	9.9	---	---	---
Oxidation (PA)	%	57	57	59	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.3	0.1	---
Nitration (PA)	%	49	52	38	---
Sulfation (PA)	%	54	55	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	11	53	---
Sodium	ppm	2	2	5	---
Potassium	ppm	<1	2	2	---

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.

WEAR METALS

Iron	ppm	15	14	13	---
Copper	ppm	11	10	16	---
Lead	ppm	2	6	3	---
Tin	ppm	<1	0	2	---
Aluminum	ppm	3	9	8	---
Chromium	ppm	<1	1	1	---
Molybdenum	ppm	58	55	42	---
Nickel	ppm	2	3	<1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1010	1238	3047	---
Magnesium	ppm	952	912	148	---
Zinc	ppm	1253	1169	1014	---
Phosphorus	ppm	1066	980	994	---
Barium	ppm	0	<1	<1	---
Boron	ppm	2	29	359	---

Depot: VP99031103

Unique No: 10816643

Signed: Sean Felton

Report Date: 05 Jan 2024

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GRAPHS

