

OIL ANALYSIS REPORT



LANSING VOLVO PENTA 2061192651 - PORT DIESEL ENGINE

Sample No: VPA036692
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA036692	VPA047950	VPA035860	---
Sample Date	12 Oct 2023	28 Oct 2022	06 Nov 2021	---
Machine Hours	2470	2426	2368	---
Oil Hours	44	58	20	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Point Judith Marina
 360 Gooseberry Road
 WAKEFIELD, RI
 US 02879
 Contact: MATT ST. ANGELO
 service@pjmarina.com;canastasio@wearcheckusa.com
 T: (401)789-7189
 F: (401)783-5350

OIL CONDITION

Visc @ 100°C	cSt	14.0	13.4	14.0	---
Base Number (BN)	mg KOH/g	8.7	11	---	---
Oxidation (PA)	%	64	64	63	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.2	0.2	---
Nitration (PA)	%	52	56	50	---
Sulfation (PA)	%	55	58	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	3	3	---
Sodium	ppm	1	3	1	---
Potassium	ppm	6	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	12	8	8	---
Copper	ppm	5	8	8	---
Lead	ppm	2	2	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	<1	0	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	14	58	42	---
Nickel	ppm	<1	3	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	1	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	1882	1219	1371	---
Magnesium	ppm	217	863	664	---
Zinc	ppm	1287	1285	1085	---
Phosphorus	ppm	929	1047	975	---
Barium	ppm	0	0	0	---
Boron	ppm	149	16	47	---

Depot: VP153811
Unique No: 10755293
Signed: Sean Felton
Report Date: 27 Nov 2023

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GRAPHS

