

OIL ANALYSIS REPORT



JOE GATTI ALAN VOLVO PENTA A1090003 - PORT DIESEL ENGINE

Sample No: VPA041131
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA041131	VPA026834	---	---
Sample Date	17 Nov 2023	09 Nov 2022	---	---
Machine Hours	142	142	---	---
Oil Hours	51	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Precision Marine Center Llc
 290 Drake Ave
 NEW ROCHELLE, NY
 US 10805
 Contact: Marc Castellano
 marc@precisionmarinecenter.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.7	13.3	---	---
Base Number (BN)	mg KOH/g	9.4	11.5	---	---
Oxidation (PA)	%	67	60	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	54	47	---	---
Sulfation (PA)	%	55	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	7	---	---
Sodium	ppm	3	1	---	---
Potassium	ppm	<1	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 acceptable for the time in service.

WEAR METALS

Iron	ppm	6	9	---	---
Copper	ppm	4	7	---	---
Lead	ppm	2	4	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	4	7	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	44	60	---	---
Nickel	ppm	<1	2	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1131	1104	---	---
Magnesium	ppm	828	913	---	---
Zinc	ppm	945	1239	---	---
Phosphorus	ppm	782	1041	---	---
Barium	ppm	0	0	---	---
Boron	ppm	43	4	---	---

Depot: VP850387
Unique No: 10752959
Signed: Don Baldrige
Report Date: 23 Nov 2023

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**VOLVO
PENTA**

GRAPHS

