

OIL ANALYSIS REPORT

VOLVO PENTA

R. STORLAZZI BUD VOLVO PENTA D6-435 2006022258 - CENTER DIESEL ENGINE

Sample No: VPA057118

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

SAMPLE INFORMATION

Sample Number	VPA057118	VPA047904	VPA040838	VPA024376
Sample Date	01 Dec 2023	15 Nov 2022	16 Dec 2021	08 Jul 2020
Machine Hours	1016	947	892	746
Oil Hours	0	0	146	113
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Point Judith Marina

360 Gooseberry Road
WAKEFIELD, RI
US 02879

Contact: MATT ST. ANGELO
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OIL CONDITION

Visc @ 100°C	cSt	14.2	13.5	13.6	13.8
Base Number (BN)	mg KOH/g	8.1	11.2	10.2	---
Oxidation (PA)	%	69	65	63	63

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.4	0.4
Nitration (PA)	%	65	63	63	64
Sulfation (PA)	%	58	59	57	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	8	7
Sodium	ppm	12	4	9	2
Potassium	ppm	1	5	11	3

WEAR METALS

Iron	ppm	32	15	21	23
Copper	ppm	7	9	14	11
Lead	ppm	<1	2	4	2
Tin	ppm	<1	<1	2	0
Aluminum	ppm	5	13	13	4
Chromium	ppm	<1	1	1	<1
Molybdenum	ppm	61	61	62	66
Nickel	ppm	0	3	5	5
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1155	1099	1154	1183
Magnesium	ppm	865	941	1079	1120
Zinc	ppm	1165	1238	1336	1258
Phosphorus	ppm	950	1041	1157	1112
Barium	ppm	0	6	2	0
Boron	ppm	11	2	6	3

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.

Depot: VP153811
Unique No: 10777219
Signed: Angela Borella
Report Date: 08 Dec 2023

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GRAPHS

