

OIL ANALYSIS REPORT



PEARSON BUD VOLVO PENTA PEARSON (S/N NOT GIVEN) - PORT DIESEL ENGINE

Sample No: VPA044784
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA044784	VPA047901	VPA040396	VPA031714
Sample Date	31 Oct 2023	01 Nov 2022	01 Dec 2021	30 Oct 2020
Machine Hours	1905	1838	1743	1723
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.6	13.3	13.2	14.0
Base Number (BN)	mg KOH/g	8.5	10.3	10.2	---
Oxidation (PA)	%	71	71	68	73

CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	63	68	63	64
Sulfation (PA)	%	57	58	57	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	9	6	3
Sodium	ppm	<1	1	2	4
Potassium	ppm	7	2	1	6

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	16	28	17	15
Copper	ppm	1	2	2	3
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	1	1	<1
Aluminum	ppm	2	1	2	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	13	65	53	8
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	4
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1809	1134	1268	1988
Magnesium	ppm	156	947	870	37
Zinc	ppm	1094	1275	1230	1023
Phosphorus	ppm	1027	1071	1096	928
Barium	ppm	5	0	0	0
Boron	ppm	154	7	24	162

Depot: VP153811
Unique No: 10728547
Signed: Sean Felton
Report Date: 08 Nov 2023

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GRAPHS

