

OIL ANALYSIS REPORT



STEPHEN ALDRIDGE 505524 VOLVO PENTA A164035 - STARBOARD DIESEL ENGINE

Sample No: VPA052168
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA052168	VPA041061	VPA034220	---
Sample Date	08 Feb 2024	23 Feb 2023	14 Jul 2022	---
Machine Hours	975	950	926	---
Oil Hours	25	0	0	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	14.3	13.7	14.05	---
Base Number (BN)	mg KOH/g	7.5	9.4	10.5	---
Oxidation (PA)	%	57	62	64	---

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.2	0.1	---
Nitration (PA)	%	59	63	62	---
Sulfation (PA)	%	50	55	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	4	---
Sodium	ppm	<1	<1	0	---
Potassium	ppm	<1	2	2	---

WEAR METALS

Iron	ppm	4	9	8	---
Copper	ppm	2	5	4	---
Lead	ppm	1	1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	<1	1	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	65	47	48	---
Nickel	ppm	<1	1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1979	1340	1239	---
Magnesium	ppm	229	776	755	---
Zinc	ppm	1230	1229	1229	---
Phosphorus	ppm	1059	1035	1051	---
Barium	ppm	0	0	0	---
Boron	ppm	103	32	38	---

Depot: VP297371
Unique No: 10874355
Signed: Sean Felton
Report Date: 14 Feb 2024

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**VOLVO
PENTA**

GRAPHS

