

OIL ANALYSIS REPORT

**VOLVO
PENTA**

RHONDAVEU VOLVO PENTA A1074901 - PORT DIESEL ENGINE

Sample No: VPA062225

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA062225	VPA041845	VPA038535	---
Sample Date	16 May 2024	21 Jun 2022	27 Jul 2021	---
Machine Hours	250	161	104	---
Oil Hours	90	58	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	13.5	13.7	12.9	---
Base Number (BN)	mg KOH/g	9.6	9.7	---	---
Oxidation (PA)	%	60	51	40	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	61	65	46	---
Sulfation (PA)	%	52	50	41	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	8	9	25	---
Sodium	ppm	2	2	4	---
Potassium	ppm	3	0	3	---

WEAR METALS

Iron	ppm	21	14	17	---
Copper	ppm	8	7	17	---
Lead	ppm	2	2	5	---
Tin	ppm	1	1	2	---
Aluminum	ppm	6	6	9	---
Chromium	ppm	1	<1	1	---
Molybdenum	ppm	51	11	48	---
Nickel	ppm	2	2	2	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	1	<1	<1	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1138	1331	1095	---
Magnesium	ppm	927	697	934	---
Zinc	ppm	1166	938	1253	---
Phosphorus	ppm	938	761	1106	---
Barium	ppm	1	0	<1	---
Boron	ppm	15	87	7	---

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T:
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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.

Depot: VP179089
Unique No: 11048540
Signed: Angela Borella
Report Date: 29 May 2024

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GRAPHS

