

OIL ANALYSIS REPORT



SAM VOLVO PENTA 2061153891 - PORT DIESEL ENGINE

Sample No: VPA060506
Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA060506	VPA047672	VPA003523	---
Sample Date	14 Feb 2024	16 Jan 2023	13 May 2015	---
Machine Hours	972	834	1800	---
Oil Hours	0	141	4	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.1	15.18	---
Base Number (BN)	mg KOH/g	9.4	10.3	---	---
Oxidation (PA)	%	62	63	56	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.3	0	---
Nitration (PA)	%	59	62	42	---
Sulfation (PA)	%	54	56	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	4	7	---
Sodium	ppm	0	<1	2	---
Potassium	ppm	2	0	0	---

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	16	14	6	---
Copper	ppm	19	21	2	---
Lead	ppm	4	5	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	2	4	2	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	62	64	86	---
Nickel	ppm	2	2	1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	939	1043	1548	---
Magnesium	ppm	787	928	405	---
Zinc	ppm	1063	1183	1198	---
Phosphorus	ppm	878	987	1084	---
Barium	ppm	0	0	0	---
Boron	ppm	56	<1	469	---

Depot: VP794951
Unique No: 10889473
Signed: Sean Felton
Report Date: 23 Feb 2024

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GRAPHS

