

OIL ANALYSIS REPORT

VOLVO PENTA

SUSAN EIDE GEOFF VOLVO PENTA 2006014371 - PORT DIESEL ENGINE

Sample No: VPA045531

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045531	VPA047481	---	---
Sample Date	13 Mar 2023	14 Mar 2022	---	---
Machine Hours	882	814	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	13.9	---	---
Base Number (BN)	mg KOH/g	10.1	10.3	---	---
Oxidation (PA)	%	66	78	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.3	0.1	---	---
Nitration (PA)	%	67	75	---	---
Sulfation (PA)	%	58	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.2	---	---
Silicon	ppm	4	3	---	---
Sodium	ppm	<1	1	---	---
Potassium	ppm	1	1	---	---

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.

WEAR METALS

Iron	ppm	10	8	---	---
Copper	ppm	5	4	---	---
Lead	ppm	2	1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	59	63	---	---
Nickel	ppm	1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1105	1101	---	---
Magnesium	ppm	919	864	---	---
Zinc	ppm	1234	1272	---	---
Phosphorus	ppm	1036	1078	---	---
Barium	ppm	0	0	---	---
Boron	ppm	7	79	---	---

Depot: VP794951
Unique No: 10377909
Signed: Sean Felton
Report Date: 20 Mar 2023

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GRAPHS

