

OIL ANALYSIS REPORT

VOLVO PENTA

MIKE ROSS VOLVO PENTA 4012182169 - STARBOARD GASOLINE ENGINE

Sample No: VPA021920
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA021920	VPA061972	---	---
Sample Date	05 May 2024	03 May 2024	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	█ 14.4	---	---
Base Number (BN)	mg KOH/g	█ 9.9	█ 8.5	---	---
Oxidation (PA)	%	61	15	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	51	6	---	---
Sulfation (PA)	%	54	11	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 27	---	---
Sodium	ppm	█ 3	█ 49	---	---
Potassium	ppm	█ 2	█ 3	---	---

WEAR METALS

Iron	ppm	█ 2	█ 88	---	---
Copper	ppm	█ <1	█ 8	---	---
Lead	ppm	█ 0	█ 6	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 5	---	---
Chromium	ppm	█ <1	█ 3	---	---
Molybdenum	ppm	█ 42	42	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	█ <1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	4	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 1447	1687	---	---
Magnesium	ppm	█ 460	23	---	---
Zinc	ppm	█ 1132	823	---	---
Phosphorus	ppm	█ 977	719	---	---
Barium	ppm	█ 0	1	---	---
Boron	ppm	█ 67	<1	---	---

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Diagnosis

No corrective action is recommended at this time. 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.

Depot: VP153685
Unique No: 11015824
Signed: Doug Bogart
Report Date: 08 May 2024

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GRAPHS

