

OIL ANALYSIS REPORT

VOLVO PENTA

KEITH WILLIAMS GB6018 VOLVO PENTA 2013976255 - PORT DIESEL ENGINE

Sample No: VPA049509

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA049509	VPA044267	---	---
Sample Date	14 Dec 2023	21 Nov 2022	---	---
Machine Hours	662	432	---	---
Oil Hours	200	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	▲ 10.8	---	---
Base Number (BN)	mg KOH/g	█ 8.5	█ 9.6	---	---
Oxidation (PA)	%	60	96	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.4	---	---
Nitration (PA)	%	57	76	---	---
Sulfation (PA)	%	53	71	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 1.8	---	---
Silicon	ppm	█ 14	█ 31	---	---
Sodium	ppm	█ 0	█ 2	---	---
Potassium	ppm	█ 2	█ 18	---	---

WEAR METALS

Iron	ppm	█ 9	█ 25	---	---
Copper	ppm	█ 7	█ 25	---	---
Lead	ppm	█ 1	█ 4	---	---
Tin	ppm	█ <1	█ 4	---	---
Aluminum	ppm	█ 2	█ 6	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 57	█ 36	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1211	█ 1713	---	---
Magnesium	ppm	█ 854	█ 430	---	---
Zinc	ppm	█ 1239	█ 1087	---	---
Phosphorus	ppm	█ 1065	█ 913	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 6	█ 46	---	---

GRAND BANKS

450 SW SALEM RD

STUART, FL

US 34994

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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: VP531377

Unique No: 10802525

Signed: Sean Felton

Report Date: 22 Dec 2023

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GRAPHS

