

OIL ANALYSIS REPORT

VOLVO PENTA

KEITH WILLIAMS GB6018 VOLVO PENTA 2013976087 - STARBOARD DIESEL ENGINE

Sample No: VPA049524

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA049524	VPA044268	---	---
Sample Date	14 Dec 2023	21 Nov 2022	---	---
Machine Hours	663	432	---	---
Oil Hours	200	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

OIL CONDITION

Visc @ 100°C	cSt	12.9	▲ 10.7	---	---
Base Number (BN)	mg KOH/g	7.9	■ 9.8	---	---
Oxidation (PA)	%	58	92	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	■ 0.4	---	---
Nitration (PA)	%	53	70	---	---
Sulfation (PA)	%	52	70	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.8	---	---
Silicon	ppm	10	■ 31	---	---
Sodium	ppm	0	■ 2	---	---
Potassium	ppm	3	■ 25	---	---

WEAR METALS

Iron	ppm	10	■ 29	---	---
Copper	ppm	5	■ 15	---	---
Lead	ppm	1	■ 3	---	---
Tin	ppm	1	■ 4	---	---
Aluminum	ppm	3	■ 10	---	---
Chromium	ppm	<1	■ 1	---	---
Molybdenum	ppm	57	■ 37	---	---
Nickel	ppm	<1	■ 0	---	---
Titanium	ppm	0	■ 0	---	---
Silver	ppm	0	■ 0	---	---
Manganese	ppm	<1	■ 2	---	---
Vanadium	ppm	0	■ 0	---	---

ADDITIVES

Calcium	ppm	1142	■ 1680	---	---
Magnesium	ppm	895	■ 444	---	---
Zinc	ppm	1253	■ 1088	---	---
Phosphorus	ppm	1062	■ 910	---	---
Barium	ppm	0	■ 0	---	---
Boron	ppm	6	■ 41	---	---

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: 10802524

Signed: Sean Felton

Report Date: 22 Dec 2023

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GRAPHS

