

OIL ANALYSIS REPORT

VOLVO PENTA

DEREK PLAKYDA D.P. VOLVO PENTA A1119184 - STARBOARD DIESEL ENGINE

Sample No: VPA051166
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA051166	---	---	---
Sample Date	20 Dec 2023	---	---	---
Machine Hours	210	---	---	---
Oil Hours	210	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Causeway Marine

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	---	---	---
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	60	---	---	---

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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	42	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 5	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 56	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1170	---	---	---
Magnesium	ppm	█ 859	---	---	---
Zinc	ppm	█ 1159	---	---	---
Phosphorus	ppm	█ 965	---	---	---
Barium	ppm	█ 8	---	---	---
Boron	ppm	█ 16	---	---	---

Depot: VP152054
Unique No: 10819346
Signed: Don Baldrige
Report Date: 09 Jan 2024

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GRAPHS

