

OIL ANALYSIS REPORT

VOLVO PENTA

36 FT SARGO 36 FT SARGO VOLVO PENTA A1159643 - PORT DIESEL ENGINE

Sample No: VPA058179

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA058179	---	---	---
Sample Date	14 Feb 2024	---	---	---
Machine Hours	144	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

North Harbor Diesel Inc

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	---	---	---
Base Number (BN)	mg KOH/g	■ 10.1	---	---	---
Oxidation (PA)	%	80	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.3	---	---	---
Nitration (PA)	%	52	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 49	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 4	---	---	---

WEAR METALS

Iron	ppm	■ 28	---	---	---
Copper	ppm	■ 17	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 11	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 45	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1599	---	---	---
Magnesium	ppm	■ 522	---	---	---
Zinc	ppm	■ 1168	---	---	---
Phosphorus	ppm	■ 893	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 66	---	---	---

Depot: VP179089
Unique No: 10888081
Signed: Jonathan Hester
Report Date: 23 Feb 2024

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GRAPHS

