

OIL ANALYSIS REPORT

VOLVO PENTA

ARIA VOLVO PENTA A161117 - STARBOARD DIESEL ENGINE

Sample No: VPA021452
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA021452	---	---	---
Sample Date	16 Apr 2024	---	---	---
Machine Hours	905	---	---	---
Oil Hours	20	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Outstanding Marine
PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
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T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	53	---	---	---

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)	%	38	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---

WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 0	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 58	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1061	---	---	---
Magnesium	ppm	█ 946	---	---	---
Zinc	ppm	█ 1210	---	---	---
Phosphorus	ppm	█ 1030	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 7	---	---	---

Depot: VP153685
Unique No: 10981790
Signed: Doug Bogart
Report Date: 19 Apr 2024

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GRAPHS

