

OIL ANALYSIS REPORT

VOLVO PENTA

20132065041 - STARBOARD DIESEL ENGINE

Sample No: VPA049535

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA049535	---	---	---
Sample Date	23 Jan 2024	---	---	---
Machine Hours	175	---	---	---
Oil Hours	175	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

SIEBERT YACHT MANAGEMENT
2875 JUPITER PARK DR, SUITE 1700
JUPITER, FL
US 33458
Contact: JAY SIEBERT
jay@siebertyachtmanagement.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 7.7	---	---	---
Oxidation (PA)	%	38	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	46	---	---	---
Sulfation (PA)	%	43	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 24	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 19	---	---	---

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.

WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 33	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	█ 8	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 4	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1049	---	---	---
Magnesium	ppm	█ 937	---	---	---
Zinc	ppm	█ 1200	---	---	---
Phosphorus	ppm	█ 1028	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 7	---	---	---

Depot: VP1190184
Unique No: 10847568
Signed: Don Baldrige
Report Date: 29 Jan 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

