

OIL ANALYSIS REPORT

VOLVO PENTA

- CENTER DIESEL ENGINE

Sample No: VPA053274
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA053274	---	---	---
Sample Date	02 Jun 2024	---	---	---
Machine Hours	954	---	---	---
Oil Hours	205	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

PIRATE WATER TAXI LLC
603 CHANNELSIDE DR
TAMPA, FL
US 33602
Contact: TJ COUCH
tcouch@piratewatertaxi.com
T: (813)360-1101
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 10.1	---	---	---
Oxidation (PA)	%	55	---	---	---

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)	%	45	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 61	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1157	---	---	---
Magnesium	ppm	1009	---	---	---
Zinc	ppm	█ 1278	---	---	---
Phosphorus	ppm	█ 1087	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 2	---	---	---

Depot: VPPIRTAM
Unique No: 11100124
Signed: Don Baldrige
Report Date: 28 Jun 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

