

OIL ANALYSIS REPORT

VOLVO PENTA

PHIL HOLT 502122 VOLVO PENTA A707067 - CENTER DIESEL ENGINE

Sample No: VPA050579

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA050579	VPA043311	---	---
Sample Date	14 Jul 2023	14 Oct 2022	---	---
Machine Hours	1940	1611	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

Endor Marine LLC - Coastal Marine - 152124
4300 11th Ave. NW
SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.5	---	---
Base Number (BN)	mg KOH/g	█ 9.9	█ 11.4	---	---
Oxidation (PA)	%	61	62	---	---

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	58	53	---	---
Sulfation (PA)	%	54	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 3	█ 3	---	---
Sodium	ppm	█ 2	█ 0	---	---
Potassium	ppm	█ 0	█ 0	---	---

WEAR METALS

Iron	ppm	█ 13	█ 11	---	---
Copper	ppm	█ 12	█ 6	---	---
Lead	ppm	█ <1	█ 1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ <1	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 63	█ 58	---	---
Nickel	ppm	█ 1	█ 1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1175	█ 1058	---	---
Magnesium	ppm	█ 1090	█ 951	---	---
Zinc	ppm	█ 1313	█ 1219	---	---
Phosphorus	ppm	█ 1066	█ 1028	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 1	---	---

Depot: VP794951
Unique No: 10563362
Signed: Jonathan Hester
Report Date: 20 Jul 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

