

OIL ANALYSIS REPORT

VOLVO PENTA

36831 - STARBOARD DIESEL ENGINE

Sample No: VPA053165

Oil Type: SHELL ROTELLA T 30

SAMPLE INFORMATION

Sample Number	VPA053165	VPA034108	---	---
Sample Date	15 May 2024	16 Apr 2022	---	---
Machine Hours	2247	2168	---	---
Oil Hours	91	83	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

JOHN SIMS

850 POINTE PACIFIC #4
DALY CITY, CA
US 94014
Contact: JOHN SIMS
jalexims@icloud.com
T: (510)589-2501
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 12.4	---	---
Base Number (BN)	mg KOH/g	█ 8.0	█ 9.8	---	---
Oxidation (PA)	%	47	47	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	49	54	---	---
Sulfation (PA)	%	46	47	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 6	---	---
Sodium	ppm	█ 5	█ 8	---	---
Potassium	ppm	█ 2	█ 2	---	---

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.

WEAR METALS

Iron	ppm	█ 19	█ 13	---	---
Copper	ppm	█ 8	█ 6	---	---
Lead	ppm	█ 3	█ 3	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 4	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 56	█ 72	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 2307	█ 2328	---	---
Magnesium	ppm	█ 144	█ 236	---	---
Zinc	ppm	█ 1186	█ 1103	---	---
Phosphorus	ppm	█ 967	█ 955	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 101	█ 39	---	---

Depot: VPJOHDAL
Unique No: 11043986
Signed: Sean Felton
Report Date: 23 May 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

