

OIL ANALYSIS REPORT

VOLVO PENTA

WINDSERVE ODYSSEY SCANIA 1161793 - STARBOARD DIESEL ENGINE

Sample No: VPA036197

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036197	---	---	---
Sample Date	18 Apr 2024	---	---	---
Machine Hours	3597	---	---	---
Oil Hours	423	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

WINDSERVE MARINE

10 MACNAUGHT ST
NORTH KINGSTOWN, RI
US 02852

Contact: Ryan Linn

RyanL@windservemarine.com

T:

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 5.1	---	---	---
Oxidation (PA)	%	73	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.6	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	66	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 8	---	---	---

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	█ 16	---	---	---
Copper	ppm	█ 8	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2043	---	---	---
Magnesium	ppm	█ 14	---	---	---
Zinc	ppm	█ 1092	---	---	---
Phosphorus	ppm	█ 915	---	---	---
Barium	ppm	█ 1	---	---	---
Boron	ppm	█ 92	---	---	---

Depot: VPSENNOR

Unique No: 11004501

Signed: Don Baldrige

Report Date: 01 May 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

