

OIL ANALYSIS REPORT



ARLAND GIFFORD 505753 VOLVO PENTA A1179191 - STARBOARD DIESEL ENGINE

Sample No: VPA052349
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA052349	VPA046995	---	---
Sample Date	29 Feb 2024	27 Jan 2023	---	---
Machine Hours	186	133	---	---
Oil Hours	53	133	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

Jefferson Beach Yacht Sales Inc
 24400 Jefferson Ave.
 SAINT CLAIR SHORES, MI
 US 48080
 Contact: CORT CORINO
 ccorino@jbys.com
 T: (773)641-6947
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 7.9	█ 11.2	---	---
Oxidation (PA)	%	56	78	---	---

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	NEG	---	---
Soot %	%	█ 0.2	█ 0.8	---	---
Nitration (PA)	%	54	59	---	---
Sulfation (PA)	%	50	64	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 25	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 4	█ 3	---	---

WEAR METALS

Iron	ppm	█ 8	█ 26	---	---
Copper	ppm	█ 4	█ 23	---	---
Lead	ppm	█ 3	█ 5	---	---
Tin	ppm	█ 2	█ 4	---	---
Aluminum	ppm	█ 3	█ 6	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	█ 58	█ 41	---	---
Nickel	ppm	█ <1	█ 1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	█ 1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1998	█ 1673	---	---
Magnesium	ppm	█ 131	█ 464	---	---
Zinc	ppm	█ 1157	█ 1108	---	---
Phosphorus	ppm	█ 1007	█ 911	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	96	█ 61	---	---

Depot: VP297371
Unique No: 10926847
Signed: Don Baldrige
Report Date: 15 Mar 2024

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**VOLVO
PENTA**

GRAPHS

