

OIL ANALYSIS REPORT



BRIAN WELLS 506052 VOLVO PENTA 2071181415 - STARBOARD DIESEL ENGINE

Sample No: VPA048785
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA048785	VPA048671	---	---
Sample Date	14 Mar 2024	14 Mar 2023	---	---
Machine Hours	742	625	---	---
Oil Hours	106	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

Jefferson Beach Yacht Sales Inc
 24400 Jefferson Ave.
 SAINT CLAIR SHORES, MI
 US 48080
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OIL CONDITION

Visc @ 100°C	cSt	15.2	16.4	---	---
Base Number (BN)	mg KOH/g	9.4	0.2	---	---
Oxidation (PA)	%	55	39	---	---

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 %	%	0.8	2.1	---	---
Nitration (PA)	%	51	56	---	---
Sulfation (PA)	%	54	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	2	4	---	---
Sodium	ppm	0	2	---	---
Potassium	ppm	0	7	---	---

WEAR METALS

Iron	ppm	12	70	---	---
Copper	ppm	21	98	---	---
Lead	ppm	1	11	---	---
Tin	ppm	0	2	---	---
Aluminum	ppm	<1	3	---	---
Chromium	ppm	0	2	---	---
Molybdenum	ppm	53	20	---	---
Nickel	ppm	3	17	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	2	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1266	2059	---	---
Magnesium	ppm	937	283	---	---
Zinc	ppm	1365	1246	---	---
Phosphorus	ppm	1096	960	---	---
Barium	ppm	0	2	---	---
Boron	ppm	14	85	---	---

Depot: VP297371
Unique No: 10929300
Signed: Sean Felton
Report Date: 20 Mar 2024

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GRAPHS

