

OIL ANALYSIS REPORT



DARYL PURFEERST SAM VOLVO PENTA 2071181847 - STARBOARD DIESEL ENGINE

Sample No: VPA053084
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA053084	VPA035139	---	---
Sample Date	19 Apr 2024	13 Jan 2022	---	---
Machine Hours	645	531	---	---
Oil Hours	114	0	---	---
Oil Changed	Changed	Changed	---	---
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	13.1	13.3	---	---
Base Number (BN)	mg KOH/g	10.0	10.8	---	---
Oxidation (PA)	%	59	65	---	---

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 %	%	0.4	0.6	---	---
Nitration (PA)	%	58	69	---	---
Sulfation (PA)	%	56	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	7	---	---
Sodium	ppm	1	9	---	---
Potassium	ppm	<1	2	---	---

WEAR METALS

Iron	ppm	13	39	---	---
Copper	ppm	27	46	---	---
Lead	ppm	2	9	---	---
Tin	ppm	0	2	---	---
Aluminum	ppm	<1	5	---	---
Chromium	ppm	0	3	---	---
Molybdenum	ppm	60	54	---	---
Nickel	ppm	2	5	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	1238	1129	---	---
Magnesium	ppm	1056	973	---	---
Zinc	ppm	1404	1292	---	---
Phosphorus	ppm	1148	1034	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	8	---	---

Depot: VP794951
Unique No: 10994100
Signed: Angela Borella
Report Date: 25 Apr 2024

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

