

OIL ANALYSIS REPORT

VOLVO PENTA

BERNARD PETERS 6049 VOLVO PENTA 7008471671 - STARBOARD DIESEL ENGINE

Sample No: VPA050783

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA050783	VPA044448	VPA034212	VPA023994
Sample Date	10 Aug 2023	17 Mar 2023	24 Feb 2022	19 Feb 2021
Machine Hours	475	403	293	207
Oil Hours	20	150	100	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	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	13.4	13.0	13.6	13.7
Base Number (BN)	mg KOH/g	10.2	10.0	11.1	---
Oxidation (PA)	%	55	63	61	61

CONTAMINATION

Soot %	%	0.2	0.5	0.5	0.5
Nitration (PA)	%	45	53	54	53
Sulfation (PA)	%	51	58	59	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	11	11	10
Sodium	ppm	0	1	1	1
Potassium	ppm	<1	<1	0	<1

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	6	17	10	13
Copper	ppm	20	59	29	29
Lead	ppm	<1	2	3	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	66	57	61	56
Nickel	ppm	<1	<1	<1	2
Titanium	ppm	0	0	0	0
Silver	ppm	2	1	1	1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1178	1116	1101	1195
Magnesium	ppm	985	895	1046	947
Zinc	ppm	1266	1249	1280	1250
Phosphorus	ppm	1081	953	1109	1111
Barium	ppm	2	0	0	0
Boron	ppm	0	10	2	8

Depot: VP297371
Unique No: 10603043
Signed: Don Baldrige
Report Date: 15 Aug 2023

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

