

OIL ANALYSIS REPORT

VOLVO PENTA

MICHAEL SCHIAVO - SUNSEEKER VOLVO PENTA 2013721027 - STARBOARD DIESEL ENGINE

Sample No: VPA036457

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036457	VPA043556	VPA039757	VPA029597
Sample Date	07 Dec 2023	11 Dec 2022	30 Oct 2021	08 Apr 2020
Machine Hours	596	563	502	368
Oil Hours	596	563	502	368
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Larry's Lighthouse Marina
1250
AQUEBOGUE, NY
US 11931
Contact: MAX FUHLBRUGGE
info@lighthousemarina.com
T: x
F: x

OIL CONDITION

Visc @ 100°C	cSt	13.9	13.9	14.1	13.0
Base Number (BN)	mg KOH/g	8.4	9.8	---	---
Oxidation (PA)	%	66	87	68	59

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.3	0.2	0.2
Nitration (PA)	%	49	91	56	46
Sulfation (PA)	%	56	62	58	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	8
Sodium	ppm	<1	0	2	2
Potassium	ppm	6	8	7	8

WEAR METALS

Iron	ppm	2	6	5	6
Copper	ppm	<1	2	3	8
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	1	0
Aluminum	ppm	<1	2	1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	2	11	16	53
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	2049	2205	1904	1173
Magnesium	ppm	38	76	238	932
Zinc	ppm	1178	1169	1133	1125
Phosphorus	ppm	934	993	1000	989
Barium	ppm	0	0	0	0
Boron	ppm	172	152	139	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.

Depot: VP610438
Unique No: 10792799
Signed: Don Baldrige
Report Date: 20 Dec 2023

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GRAPHS

