

OIL ANALYSIS REPORT



HARRY VERBY VOLVO PENTA D6-370D-F A833956 - PORT DIESEL ENGINE

Sample No: VPA036700
Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036700	VPA043526	VPA033935	VPA029598
Sample Date	15 Dec 2023	22 Nov 2022	24 Nov 2021	02 Nov 2020
Machine Hours	369	324	270	220
Oil Hours	369	324	270	0
Oil Changed	Changed	Changed	Changed	Changed
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	14.3	14.6	14.8	14.7
Base Number (BN)	mg KOH/g	8.4	9.4	9	---
Oxidation (PA)	%	73	71	68	71

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	52	58	53	58
Sulfation (PA)	%	58	60	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	3	4
Sodium	ppm	2	2	2	2
Potassium	ppm	7	7	6	7

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 suitable for further service.

WEAR METALS

Iron	ppm	8	7	7	9
Copper	ppm	2	3	2	4
Lead	ppm	<1	1	1	1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	1	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	4	<1	2	2
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	2024	2183	2074	2083
Magnesium	ppm	64	14	18	25
Zinc	ppm	1193	1154	1031	1112
Phosphorus	ppm	1011	963	888	970
Barium	ppm	0	0	0	0
Boron	ppm	181	183	151	205

Depot: VP610438
Unique No: 10843058
Signed: Angela Borella
Report Date: 23 Jan 2024

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VOLVO PENTA

GRAPHS

