

OIL ANALYSIS REPORT



DORR WALTER KOHLER 50772574 - CENTER GENSET

Sample No: VPA055872
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA055872	VPA047212	VPA034244	VPA027685
Sample Date	14 Oct 2023	01 Oct 2022	17 Oct 2021	20 Jul 2020
Machine Hours	1250	970	900	0
Oil Hours	100	70	70	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Bayview Yachtcrafters Inc
 31785 S. River Road
 HARRISON TOWNSHIP, MI
 US 48045
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	14.3	14.1	13.3	14.0
Base Number (BN)	mg KOH/g	7.7	10.4	---	---
Oxidation (PA)	%	66	69	63	59

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	49	56	53	57
Sulfation (PA)	%	55	60	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	6
Sodium	ppm	5	2	0	4
Potassium	ppm	9	6	3	0

WEAR METALS

Iron	ppm	3	3	7	6
Copper	ppm	<1	<1	2	5
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	<1	<1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	3	11	40	52
Nickel	ppm	<1	<1	0	1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	2102	2009	1603	1538
Magnesium	ppm	48	189	664	896
Zinc	ppm	1203	1193	1206	1273
Phosphorus	ppm	1023	982	1131	1134
Barium	ppm	<1	0	0	0
Boron	ppm	198	165	67	45

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: VP151756
Unique No: 10723688
Signed: Don Baldrige
Report Date: 02 Nov 2023

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VOLVO PENTA

GRAPHS

