

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A1072861 - PORT DIESEL ENGINE

Sample No: VPA036554

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036554	VPA048223	VPA040466	VPA034535
Sample Date	29 Aug 2023	11 Apr 2022	05 Nov 2021	19 Aug 2021
Machine Hours	768	538	455	403
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
Contact: JOSHUA
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T: (941)342-0033
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OIL CONDITION

Visc @ 100°C	cSt	13.41	13.7	13.6	13.52
Base Number (BN)	mg KOH/g	9.9	11.6	---	---
Oxidation (PA)	%	58	60	59	60

CONTAMINATION

Soot %	%	0.2	0.5	0.4	0.4
Nitration (PA)	%	53	68	55	52
Sulfation (PA)	%	54	57	56	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	4	5
Sodium	ppm	0	2	1	<1
Potassium	ppm	1	0	<1	<1

WEAR METALS

Iron	ppm	15	17	12	11
Copper	ppm	7	9	6	5
Lead	ppm	<1	1	2	2
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	2	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	64	62	61	58
Nickel	ppm	1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	1142	1152	1108	1077
Magnesium	ppm	956	1000	970	937
Zinc	ppm	1271	1211	1240	1210
Phosphorus	ppm	1084	1105	1050	1018
Barium	ppm	2	0	0	0
Boron	ppm	<1	8	9	13

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.

Depot: VP705283
Unique No: 10631730
Signed: Doug Bogart
Report Date: 01 Sep 2023

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GRAPHS

