

OIL ANALYSIS REPORT



VOLVO PENTA A1072862 - STARBOARD DIESEL ENGINE

Sample No: VPA059407

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059407	VPA036555	VPA048224	VPA040392
Sample Date	09 Jul 2024	29 Aug 2023	11 Apr 2022	05 Nov 2021
Machine Hours	869	768	540	454
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	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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OIL CONDITION

Visc @ 100°C	cSt	13.15	13.82	13.5	13.5
Base Number (BN)	mg KOH/g	9.5	9.9	11.1	---
Oxidation (PA)	%	55	58	63	59

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.5	0.4
Nitration (PA)	%	43	53	63	55
Sulfation (PA)	%	50	54	59	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	6	4
Sodium	ppm	<1	0	2	1
Potassium	ppm	2	<1	0	<1

WEAR METALS

Iron	ppm	15	20	23	15
Copper	ppm	5	7	10	6
Lead	ppm	<1	<1	2	2
Tin	ppm	<1	<1	1	1
Aluminum	ppm	2	1	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	65	63	62	61
Nickel	ppm	1	2	1	1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1084	1120	1145	1102
Magnesium	ppm	945	936	1001	978
Zinc	ppm	1222	1241	1216	1246
Phosphorus	ppm	920	1075	1110	1052
Barium	ppm	1	2	0	0
Boron	ppm	2	6	8	8

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

Depot: VP705283
Unique No: 11116247
Signed: Doug Bogart
Report Date: 10 Jul 2024

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**VOLVO
PENTA**

GRAPHS

