

OIL ANALYSIS REPORT

VOLVO PENTA

7011245509 - STARBOARD DIESEL ENGINE

Sample No: VPA044435

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA044435	VPA027567	---	---
Sample Date	16 Dec 2023	03 Mar 2022	---	---
Machine Hours	2151	1700	---	---
Oil Hours	2151	150	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	12.2	12.4	---	---
Base Number (BN)	mg KOH/g	8.5	10.4	---	---
Oxidation (PA)	%	61	63	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.5	0.4	---	---
Nitration (PA)	%	65	61	---	---
Sulfation (PA)	%	55	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1.2	---	---
Silicon	ppm	10	5	---	---
Sodium	ppm	17	1	---	---
Potassium	ppm	<1	1	---	---

WEAR METALS

Iron	ppm	11	48	---	---
Copper	ppm	12	12	---	---
Lead	ppm	<1	2	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	6	114	---	---
Chromium	ppm	1	6	---	---
Molybdenum	ppm	62	62	---	---
Nickel	ppm	2	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1046	1088	---	---
Magnesium	ppm	968	1027	---	---
Zinc	ppm	1274	1339	---	---
Phosphorus	ppm	1136	1100	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	6	1	---	---

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T:
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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: VPMITBOC

Unique No: 10804393

Signed: Angela Borella

Report Date: 27 Dec 2023

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GRAPHS

