

OIL ANALYSIS REPORT

**VOLVO
PENTA**

MYLES JB VOLVO PENTA 7011485269 - STARBOARD DIESEL ENGINE

Sample No: VPA036951

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

SAMPLE INFORMATION

Sample Number	VPA036951	VPA044717	---	---
Sample Date	03 Dec 2023	05 Nov 2022	---	---
Machine Hours	225	193	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

Point Judith Marina

360 Gooseberry Road
WAKEFIELD, RI
US 02879

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	▲ 11.0	---	---
Base Number (BN)	mg KOH/g	█ 8.3	█ 8.8	---	---
Oxidation (PA)	%	█ 63	█ 62	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.7	---	---
Nitration (PA)	%	█ 50	█ 65	---	---
Sulfation (PA)	%	█ 55	█ 57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 1.5	---	---
Silicon	ppm	█ 5	█ 52	---	---
Sodium	ppm	█ 9	█ 3	---	---
Potassium	ppm	█ 6	█ 4	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

WEAR METALS

Iron	ppm	█ 26	█ 31	---	---
Copper	ppm	█ 2	▲ 156	---	---
Lead	ppm	█ 0	█ 3	---	---
Tin	ppm	█ 0	█ 4	---	---
Aluminum	ppm	█ 7	█ 3	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 51	█ 11	---	---
Nickel	ppm	█ 0	█ 3	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ 2	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	█ 0	█ <1	---	---

ADDITIVES

Calcium	ppm	█ 1547	█ 2529	---	---
Magnesium	ppm	█ 616	█ 14	---	---
Zinc	ppm	█ 1254	█ 1156	---	---
Phosphorus	ppm	█ 1042	█ 953	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 15	█ 45	---	---

Depot: VP153811
Unique No: 10777222
Signed: Angela Borella
Report Date: 08 Dec 2023

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GRAPHS

