

OIL ANALYSIS REPORT



JAMES REED VOLVO PENTA 7011448849 - STARBOARD DIESEL ENGINE

Sample No: VPA051838
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA051838	VPA050626	---	---
Sample Date	17 Nov 2023	21 Aug 2023	---	---
Machine Hours	490	0	---	---
Oil Hours	15	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	MARGINAL	---	---

ONE WATER YACHT

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 FR LAUDERDALE, FL
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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.2	---	---
Base Number (BN)	mg KOH/g	10.2	10.5	---	---
Oxidation (PA)	%	53	75	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.3	---	---
Nitration (PA)	%	41	50	---	---
Sulfation (PA)	%	50	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	2.4	---	---
Silicon	ppm	7	5	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	1	0	---	---

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.

WEAR METALS

Iron	ppm	4	5	---	---
Copper	ppm	13	12	---	---
Lead	ppm	5	0	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	3	1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	56	41	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	966	1634	---	---
Magnesium	ppm	921	564	---	---
Zinc	ppm	1208	919	---	---
Phosphorus	ppm	1016	773	---	---
Barium	ppm	0	0	---	---
Boron	ppm	1	52	---	---

Depot: VP1134827
Unique No: 10764735
Signed: Don Baldrige
Report Date: 01 Dec 2023

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VOLVO PENTA

GRAPHS

