

OIL ANALYSIS REPORT



MIKE ROWE TAP533854 VOLVO PENTA 7008448 I 17 - STARBOARD DIESEL ENGINE

Sample No: VPA045760

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

SAMPLE INFORMATION

Sample Number	VPA045760	VPA034654	---	---
Sample Date	08 Jan 2024	19 Apr 2021	---	---
Machine Hours	447	329	---	---
Oil Hours	447	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

FDDA TAMPA

TAMPA, FL
US
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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.2	---	---
Base Number (BN)	mg KOH/g	10.1	---	---	---
Oxidation (PA)	%	55	60	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	43	48	---	---
Sulfation (PA)	%	50	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	12	---	---
Sodium	ppm	<1	3	---	---
Potassium	ppm	2	2	---	---

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	<1	13	---	---
Copper	ppm	7	23	---	---
Lead	ppm	0	1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	0	<1	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	54	60	---	---
Nickel	ppm	0	1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	2	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	987	1014	---	---
Magnesium	ppm	951	948	---	---
Zinc	ppm	1286	1230	---	---
Phosphorus	ppm	969	1016	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	3	---	---

Depot: VP208641
Unique No: 10823676
Signed: Don Baldrige
Report Date: 12 Jan 2024

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**VOLVO
PENTA**

GRAPHS

