

OIL ANALYSIS REPORT

VOLVO PENTA

LYON SHIPYARD 17307 VOLVO PENTA 7008546746 - VARIABLE SPEED - DIESEL ENGINE

Sample No: VPA053664

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

SAMPLE INFORMATION

Sample Number	VPA053664	---	---	---
Sample Date	20 Mar 2024	---	---	---
Machine Hours	17307	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Western Branch Diesel, Inc. - VP527273

3504 SHIPWRIGHT ST
PORTSMOUTH, VA
US 23703

Contact: David Shook
dshook@wbdiesel.com

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	60	---	---	---

Diagnosis

No corrective action is recommended at this time. 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. Elemental level of silicon (Si) above normal. 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.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	● 26	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 64	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1877	---	---	---
Magnesium	ppm	█ 365	---	---	---
Zinc	ppm	█ 1232	---	---	---
Phosphorus	ppm	█ 1080	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	113	---	---	---

Depot: VP155396

Unique No: 10938884

Signed: Don Baldrige

Report Date: 24 Mar 2024

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GRAPHS

