

OIL ANALYSIS REPORT

VOLVO PENTA

H14357 VOLVO PENTA 7008480203 - STARBOARD DIESEL ENGINE

Sample No: VPA048772

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

SAMPLE INFORMATION

Sample Number	VPA048772	---	---	---
Sample Date	29 Aug 2023	---	---	---
Machine Hours	614	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Walstrom Marine

501 Bay Street
HARBOR SPRINGS, MI
US 49740
Contact: MARK LEWIS
mlewis@walstrom.com

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.6	---	---	---
Base Number (BN)	mg KOH/g	█ 8.5	---	---	---
Oxidation (PA)	%	61	---	---	---

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.

CONTAMINATION

Soot %	%	█ 1	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ <1	---	---	---

WEAR METALS

Iron	ppm	█ 17	---	---	---
Copper	ppm	█ 79	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 90	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ 1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1643	---	---	---
Magnesium	ppm	█ 515	---	---	---
Zinc	ppm	█ 1464	---	---	---
Phosphorus	ppm	█ 1168	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	324	---	---	---

Depot: VP154879
Unique No: 10632406
Signed: Sean Felton
Report Date: 06 Sep 2023

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GRAPHS

