

OIL ANALYSIS REPORT

VOLVO PENTA

GEORGE MEARS 902731 VOLVO PENTA A1105648 - STARBOARD DIESEL ENGINE

Sample No: VPA036608

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

SAMPLE INFORMATION

Sample Number	VPA036608	---	---	---
Sample Date	02 Oct 2023	---	---	---
Machine Hours	498	---	---	---
Oil Hours	36	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Cogswell Marine & Motorsports, Inc
865 Stella Street
CHULA VISTA, CA
US 91911
Contact: Mitchell Cogswell
Cogswellmarinemotorsports@gmail.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 10.8	---	---	---
Oxidation (PA)	%	50	---	---	---

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	50	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 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	█ 13	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 56	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1077	---	---	---
Magnesium	ppm	█ 971	---	---	---
Zinc	ppm	█ 1268	---	---	---
Phosphorus	ppm	█ 1037	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 5	---	---	---

Depot: VP152133
Unique No: 10682640
Signed: Don Baldrige
Report Date: 09 Oct 2023

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GRAPHS

