

OIL ANALYSIS REPORT

VOLVO PENTA

TREY DARBY TY VOLVO PENTA A 1061087 - STARBOARD DIESEL ENGINE

Sample No: VPA038294

Oil Type: VOLVO

SAMPLE INFORMATION

Sample Number	VPA038294	---	---	---
Sample Date	12 Dec 2023	---	---	---
Machine Hours	154	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Commodore Marine LP
132 Grandpappy Dr.
DENISON, TX
US 75020
Contact: Angie Bauer
service@grandpappy.com
T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.1	---	---	---
Oxidation (PA)	%	60	---	---	---

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

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	48	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 21	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 33	---	---	---
Copper	ppm	█ 12	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 23	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 54	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1599	---	---	---
Magnesium	ppm	█ 450	---	---	---
Zinc	ppm	█ 1239	---	---	---
Phosphorus	ppm	█ 987	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 114	---	---	---

Depot: VP648181
Unique No: 10792790
Signed: Don Baldrige
Report Date: 20 Dec 2023

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GRAPHS

