

OIL ANALYSIS REPORT

VOLVO PENTA

TROY HERTZ TROY HERTZ VOLVO PENTA TROY HERTZ - STERNDRIVE (S/N NOT GIVEN) - CENTER DIESEL ENGINE

Sample No: VPA060745

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA060745	---	---	---
Sample Date	08 Mar 2024	---	---	---
Machine Hours	434	---	---	---
Oil Hours	434	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

Helmut's Marine Service

619 Canal Street
SAN RAFAEL, CA
US 94901-3545
Contact: NADINE URUIOLI
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.5	---	---	---
Oxidation (PA)	%	51	---	---	---

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 suitable for further service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	42	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 51	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ < 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1141	---	---	---
Magnesium	ppm	█ 850	---	---	---
Zinc	ppm	█ 1090	---	---	---
Phosphorus	ppm	█ 960	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 26	---	---	---

Depot: VP152741

Unique No: 10928138

Signed: Don Baldrige

Report Date: 18 Mar 2024

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GRAPHS

