

OIL ANALYSIS REPORT

VOLVO PENTA

NORTHERN LIGHTS NOT GIVEN VPA034221 - CENTER GENSET

Sample No: VPA034221

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA034221	---	---	---
Sample Date	22 Aug 2023	---	---	---
Machine Hours	980	---	---	---
Oil Hours	10	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.57	---	---	---
Oxidation (PA)	%	█ 65	---	---	---

CONTAMINATION

Soot %	%	█ 0	---	---	---
Nitration (PA)	%	█ 43	---	---	---
Sulfation (PA)	%	█ 56	---	---	---
Glycol	%	█ NEG	---	---	---
Fuel	%	█ <1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 8	---	---	---

WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	█ 0	---	---	---

ADDITIVES

Calcium	ppm	█ 2051	---	---	---
Magnesium	ppm	█ 16	---	---	---
Zinc	ppm	█ 1067	---	---	---
Phosphorus	ppm	█ 919	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 228	---	---	---

SMART DIESEL SERVICE

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Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

Depot: VPSMAPLA
Unique No: 10617808
Signed: Doug Bogart
Report Date: 23 Aug 2023

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GRAPHS

