

OIL ANALYSIS REPORT

VOLVO PENTA

NORTHERN LIGHTS 7732-51397 - CENTER GENSET

Sample No: VPA059482

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA059482	---	---	---
Sample Date	13 Mar 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	100	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

SMART DIESEL SERVICE

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.7	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	65	---	---	---

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)	%	61	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 21	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 10	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 50	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1533	---	---	---
Magnesium	ppm	█ 554	---	---	---
Zinc	ppm	█ 1127	---	---	---
Phosphorus	ppm	█ 858	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	38	---	---	---

Depot: VPSMAPLA
Unique No: 10939499
Signed: Jonathan Hester
Report Date: 22 Mar 2024

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GRAPHS

