

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ONAN H190615855 - INDUSTRIAL - GENSET

Sample No: VPA051964

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA051964	---	---	---
Sample Date	01 Nov 2023	---	---	---
Machine Hours	105	---	---	---
Oil Hours	105	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

SEATECH MARINE

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TIBURON, CA
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	---	---	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	63	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	62	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 1	---	---	---

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	█ 6	---	---	---
Copper	ppm	█ 15	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 38	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1764	---	---	---
Magnesium	ppm	█ 518	---	---	---
Zinc	ppm	█ 1135	---	---	---
Phosphorus	ppm	█ 945	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	61	---	---	---

Depot: VPSEATIB
Unique No: 10743027
Signed: Don Baldrige
Report Date: 19 Nov 2023

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GRAPHS

