

OIL ANALYSIS REPORT

**VOLVO
PENTA**

DEREK PLAKYDA D.P. WESTERBEKE 2196721 - INDUSTRIAL - GENSET

Sample No: VPA051164

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA051164	---	---	---
Sample Date	20 Dec 2023	---	---	---
Machine Hours	278	---	---	---
Oil Hours	278	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 7.3	---	---	---
Oxidation (PA)	%	51	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	60	---	---	---
Sulfation (PA)	%	47	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 35	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 89	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2140	---	---	---
Magnesium	ppm	█ 213	---	---	---
Zinc	ppm	█ 1268	---	---	---
Phosphorus	ppm	█ 1012	---	---	---
Barium	ppm	█ 9	---	---	---
Boron	ppm	█ 64	---	---	---

Causeway Marine

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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.

Depot: VP152054
Unique No: 10819344
Signed: Don Baldrige
Report Date: 09 Jan 2024

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GRAPHS

