

OIL ANALYSIS REPORT

**VOLVO
PENTA**

BIPSCHKE BUD JOHN DEERE RG6135L030934 - CENTER DIESEL ENGINE

Sample No: VPA021810

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA021810	VPA044084	---	---
Sample Date	28 Dec 2023	15 Dec 2022	---	---
Machine Hours	1633	1300	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	NORMAL	---	---

Point Judith Marina

360 Gooseberry Road
WAKEFIELD, RI
US 02879

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.5	---	---
Base Number (BN)	mg KOH/g	7.2	8.2	---	---
Oxidation (PA)	%	70	74	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.2	0.2	---	---
Nitration (PA)	%	58	60	---	---
Sulfation (PA)	%	57	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	6	---	---
Sodium	ppm	<1	4	---	---
Potassium	ppm	8	6	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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	20	13	---	---
Copper	ppm	29	17	---	---
Lead	ppm	2	4	---	---
Tin	ppm	1	2	---	---
Aluminum	ppm	7	2	---	---
Chromium	ppm	2	<1	---	---
Molybdenum	ppm	1	7	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	2137	2250	---	---
Magnesium	ppm	18	55	---	---
Zinc	ppm	1112	1183	---	---
Phosphorus	ppm	858	991	---	---
Barium	ppm	7	0	---	---
Boron	ppm	145	161	---	---

Depot: VP153811
Unique No: 10819343
Signed: Don Baldrige
Report Date: 09 Jan 2024

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GRAPHS

