

OIL ANALYSIS REPORT

**VOLVO
PENTA**

SVENDSENS BAY MARINE JOHN DEERE RG6135L040632 - STARBOARD DIESEL ENGINE

Sample No: VPA047553

Oil Type: JOHN DEERE ENGINE OIL PLUS 50 II 15W40

SAMPLE INFORMATION

Sample Number	VPA047553	VPA047591	---	---
Sample Date	30 Nov 2023	07 Jun 2023	---	---
Machine Hours	1530	414	---	---
Oil Hours	0	194	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	SEVERE	SEVERE	---	---

OIL CONDITION

Visc @ 100°C	cSt	▲ 9.3	▲ 9.8	---	---
Base Number (BN)	mg KOH/g	■ 7.2	■ 8.7	---	---
Oxidation (PA)	%	53	51	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.4	■ 0.1	---	---
Nitration (PA)	%	58	50	---	---
Sulfation (PA)	%	52	51	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	◆ 16.6	◆ 11.8	---	---
Silicon	ppm	■ 7	■ 8	---	---
Sodium	ppm	■ 3	■ 0	---	---
Potassium	ppm	■ 0	■ 2	---	---

WEAR METALS

Iron	ppm	■ 11	■ 5	---	---
Copper	ppm	■ 9	■ 10	---	---
Lead	ppm	■ 2	■ 3	---	---
Tin	ppm	■ <1	■ 2	---	---
Aluminum	ppm	■ 2	■ 0	---	---
Chromium	ppm	■ 0	■ 0	---	---
Molybdenum	ppm	■ 207	■ 217	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 0	■ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	■ 1251	1182	---	---
Magnesium	ppm	■ 672	■ 685	---	---
Zinc	ppm	■ 996	■ 889	---	---
Phosphorus	ppm	■ 813	■ 744	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 177	■ 250	---	---

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Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP601779
Unique No: 10767943
Signed: Doug Bogart
Report Date: 07 Dec 2023

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GRAPHS

