

OIL ANALYSIS REPORT

VOLVO PENTA

MCGUIRE - ENCORE ENCORE VOLVO PENTA 2003018716 - PORT DIESEL ENGINE

Sample No: VPA040337

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA040337	VPA033174	---	---
Sample Date	27 Sep 2022	19 Oct 2021	---	---
Machine Hours	968	923	---	---
Oil Hours	45	42	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

OIL CONDITION

Visc @ 40°C	cSt	█ 111	█ 111	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 9	█ 9	---	---
Sodium	ppm	█ 8	█ 10	---	---
Potassium	ppm	█ 8	█ 10	---	---

WEAR METALS

Iron	ppm	█ 110	█ 124	---	---
Copper	ppm	█ 30	█ 29	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	● 33	▲ 45	---	---
Chromium	ppm	█ 9	█ 10	---	---
Molybdenum	ppm	█ 2	█ <1	---	---
Nickel	ppm	█ 2	█ 2	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 2	█ 1	---	---
Vanadium	ppm	<1	<1	---	---

ADDITIVES

Calcium	ppm	█ 2188	█ 2433	---	---
Magnesium	ppm	█ 21	█ 15	---	---
Zinc	ppm	█ 1187	█ 1120	---	---
Phosphorus	ppm	█ 975	█ 994	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 181	█ 170	---	---

McMichael Yacht Yard No1 Inc

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Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level has decreased, but is still abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP153367

Unique No: 10179287

Signed: Don Baldrige

Report Date: 19 Oct 2022

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GRAPHS

