

OIL ANALYSIS REPORT

VOLVO PENTA

CHARLESTON PILOTS VOLVO PENTA 1013544477 - STARBOARD DIESEL ENGINE

Sample No: VPA022820

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA022820	---	---	---
Sample Date	28 Oct 2022	---	---	---
Machine Hours	4476	---	---	---
Oil Hours	513	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	ABNORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	---	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	74	---	---	---

CONTAMINATION

Soot %	%	█ 1.2	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	70	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	▲ 4.4	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ <1	---	---	---

WEAR METALS

Iron	ppm	█ 23	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 6	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 102	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1460	---	---	---
Magnesium	ppm	█ 648	---	---	---
Zinc	ppm	█ 822	---	---	---
Phosphorus	ppm	█ 709	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 153	---	---	---

WESTERN BRANCH DIESEL

6881 BULLDOG DR N

CHARLESTON, SC

US 29406

Contact: MICHAEL JORDAN

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T:

F:

Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data updates. All component wear rates are normal. There is a moderate amount of fuel present 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: VP1165983

Unique No: 10203143

Signed: Jonathan Hester

Report Date: 14 Nov 2022

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GRAPHS

