

OIL ANALYSIS REPORT

VOLVO PENTA

7011366155 - PORT DIESEL ENGINE

Sample No: VPA040885

Oil Type: CHEVRON DELO 400 MULTIGRADE 15W40

SAMPLE INFORMATION

Sample Number	VPA040885	VPA034082	VPA033939	---
Sample Date	07 Jul 2023	13 Jun 2023	08 Jun 2022	---
Machine Hours	10795	10661	9198	---
Oil Hours	100	608	600	---
Oil Changed	Not Changd	Changed	Changed	---
Sample Status	MARGINAL	ABNORMAL	ABNORMAL	---

CHRISTIAN CAVANAUGH

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.7	▲ 11.2	▲ 12.2	---
Base Number (BN)	mg KOH/g	█ 8.5	█ 9.6	█ 8.5	---
Oxidation (PA)	%	50	60	63	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.2	█ 0.2	---
Nitration (PA)	%	56	56	59	---
Sulfation (PA)	%	49	54	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 2.1	▲ 4.9	▲ 4.7	---
Silicon	ppm	█ 3	█ 5	█ 2	---
Sodium	ppm	█ 1	█ 0	█ 2	---
Potassium	ppm	█ 2	█ 2	█ <1	---

WEAR METALS

Iron	ppm	█ 3	█ 6	█ 5	---
Copper	ppm	█ 8	█ 24	█ 21	---
Lead	ppm	█ <1	█ <1	█ 1	---
Tin	ppm	█ <1	█ <1	█ <1	---
Aluminum	ppm	█ 1	█ <1	█ <1	---
Chromium	ppm	█ 0	█ 0	█ <1	---
Molybdenum	ppm	█ 13	█ 97	█ 50	---
Nickel	ppm	█ 0	█ <1	█ 0	---
Titanium	ppm	█ 0	█ <1	█ 0	---
Silver	ppm	█ 0	█ 0	█ <1	---
Manganese	ppm	█ <1	█ <1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	█ 1263	█ 1568	█ 1108	---
Magnesium	ppm	█ 769	1271	█ 898	---
Zinc	ppm	█ 879	1645	█ 1139	---
Phosphorus	ppm	█ 744	1404	█ 952	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 71	38	█ 9	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VPCHRNAOV

Unique No: 10559724

Signed: Don Baldrige

Report Date: 17 Jul 2023

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GRAPHS

