

OIL ANALYSIS REPORT

VOLVO PENTA

JMADRA VOLVO PENTA A364867 - PORT DIESEL ENGINE

Sample No: VPA036388

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA036388	VPA031177	---	---
Sample Date	15 Nov 2023	24 Sep 2021	---	---
Machine Hours	1440	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 13.7	---	---
Base Number (BN)	mg KOH/g	█ 10.2	---	---	---
Oxidation (PA)	%	58	62	---	---

Diagnosis

Resample at the next service interval to monitor. All 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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.3	---	---
Nitration (PA)	%	48	59	---	---
Sulfation (PA)	%	53	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 4	---	---
Sodium	ppm	█ 0	█ <1	---	---
Potassium	ppm	█ 2	█ <1	---	---

WEAR METALS

Iron	ppm	█ 11	█ 11	---	---
Copper	ppm	█ 5	█ 10	---	---
Lead	ppm	█ 10	█ 13	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 4	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 66	█ 60	---	---
Nickel	ppm	█ 1	█ 2	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1093	█ 1038	---	---
Magnesium	ppm	█ 960	█ 961	---	---
Zinc	ppm	█ 1266	█ 1145	---	---
Phosphorus	ppm	█ 1115	█ 1037	---	---
Barium	ppm	█ 9	█ 0	---	---
Boron	ppm	█ 0	█ 3	---	---

Depot: VP1298996
Unique No: 10752362
Signed: Don Baldrige
Report Date: 22 Nov 2023

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GRAPHS

