

OIL ANALYSIS REPORT

VOLVO PENTA

CATS AND DOGS 3777 0477041 - PORT DIESEL ENGINE

Sample No: VPA047889

Oil Type: YANMAR 5W40 SYNTHETIC

SAMPLE INFORMATION

Sample Number	VPA047889	VPA044210	VPA031293	VPA014773
Sample Date	23 Oct 2023	21 Oct 2022	27 Oct 2021	28 Oct 2017
Machine Hours	439	416	396	275
Oil Hours	20	24	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	█ 12.8	█ 13.5	█ 14.33
Base Number (BN)	mg KOH/g	█ 8.0	█ 10	---	---
Oxidation (PA)	%	█ 51	█ 58	█ 58	█ 52

CONTAMINATION

Soot %	%	█ 0.1	█ 0.2	█ 0.3	█ 0.2
Nitration (PA)	%	█ 51	█ 60	█ 65	█ 50
Sulfation (PA)	%	█ 50	█ 55	█ 53	█ 33
Glycol	%	█ NEG	█ NEG	█ NEG	█ NEG
Fuel	%	█ <1.0	█ <1.0	█ <1.0	█ <1.0
Silicon	ppm	█ 4	█ 4	█ 4	█ 4
Sodium	ppm	█ 3	█ 2	█ 5	█ 4
Potassium	ppm	█ 5	█ <1	█ 4	█ 1

WEAR METALS

Iron	ppm	█ 4	█ 9	█ 11	█ 15
Copper	ppm	█ 6	█ 6	█ 12	█ 19
Lead	ppm	█ 0	█ <1	█ <1	█ <1
Tin	ppm	█ 0	█ <1	█ <1	█ 0
Aluminum	ppm	█ 2	█ 2	█ 4	█ 2
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 3	█ 9	█ 14	█ 54
Nickel	ppm	█ 1	█ 0	█ 2	█ 2
Titanium	ppm	█ 0	█ <1	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ 1
Vanadium	ppm	█ <1	█ 0	█ <1	█ 0

ADDITIVES

Calcium	ppm	█ 1252	█ 1472	█ 1247	█ 1201
Magnesium	ppm	█ 682	█ 647	█ 782	█ 881
Zinc	ppm	█ 1211	█ 1163	█ 1096	█ 1040
Phosphorus	ppm	█ 984	█ 996	█ 991	█ 989
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 135	█ 168	█ 131	█ 51

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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.

Depot: VP592286

Unique No: 10722498

Signed: Sean Felton

Report Date: 01 Nov 2023

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GRAPHS

