

OIL ANALYSIS REPORT

VOLVO PENTA

MARK CROWE YANMAR 70247 - PORT DIESEL ENGINE

Sample No: VPA044783

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA044783	VPA039895	VPA040210	VPA031711
Sample Date	29 Oct 2023	29 Oct 2022	24 Oct 2021	01 Nov 2020
Machine Hours	1348	1324	1295	1310
Oil Hours	24	28	33	50
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Point Judith Marina

360 Gooseberry Road

WAKEFIELD, RI

US 02879

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 13.8	█ 14.0	█ 14.1
Base Number (BN)	mg KOH/g	█ 8.4	█ 9.5	---	---
Oxidation (PA)	%	█ 64	75	71	74

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.1	█ 0.2
Nitration (PA)	%	█ 48	56	52	56
Sulfation (PA)	%	█ 54	61	58	61
Glycol	%	█ NEG	NEG	NEG	NEG
Fuel	%	█ <1.0	<1.0	<1.0	<1.0
Silicon	ppm	█ 2	█ 2	█ 2	█ 1
Sodium	ppm	█ 2	█ 2	█ 3	█ 6
Potassium	ppm	█ 4	█ 4	█ 7	█ 7

WEAR METALS

Iron	ppm	█ 3	█ 4	█ 6	█ 5
Copper	ppm	█ 10	█ 1	█ 2	█ 1
Lead	ppm	█ 3	█ 6	█ <1	█ <1
Tin	ppm	█ <1	█ <1	█ <1	█ 0
Aluminum	ppm	█ 1	█ <1	█ <1	█ 0
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 8	█ 6	█ 6	█ 2
Nickel	ppm	█ <1	█ 0	█ <1	█ <1
Titanium	ppm	█ 0	█ 0	█ <1	█ 0
Silver	ppm	█ 0	█ 0	█ <1	█ 0
Manganese	ppm	█ 0	█ <1	█ <1	█ <1
Vanadium	ppm	█ <1	0	█ <1	0

ADDITIVES

Calcium	ppm	█ 2233	█ 2176	█ 2315	█ 2088
Magnesium	ppm	█ 28	█ 48	█ 33	█ 13
Zinc	ppm	█ 1258	█ 1120	█ 1290	█ 1072
Phosphorus	ppm	█ 1023	█ 977	█ 1035	█ 963
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 179	█ 175	█ 215	█ 215

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: VP153811

Unique No: 10727191

Signed: Don Baldrige

Report Date: 07 Nov 2023

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GRAPHS

