

OIL ANALYSIS REPORT

VOLVO PENTA

RICHARD FISCHMAN MATTHEW DOW VOLVO PENTA 2006010917 - PORT DIESEL ENGINE

Sample No: VPA056591

Oil Type: VALVOLINE PREMIUM BLUE

SAMPLE INFORMATION

Sample Number	VPA056591	VPA042834	VPA035584	VPA030222
Sample Date	01 Sep 2023	17 Oct 2022	01 Nov 2021	16 Oct 2019
Machine Hours	932	865	801	716
Oil Hours	67	64	85	93
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Mobile Marine Services Inc
01032 Advance Rd South
EAST JORDAN, MI
US 49727
Contact: Duane Kujat
mobilemarine@twin-valley.net
T: Phone
F:

OIL CONDITION

Visc @ 100°C	cSt	14.4	14.3	14.3	14.8
Base Number (BN)	mg KOH/g	9.1	10.4	9.7	---
Oxidation (PA)	%	75	79	82	81

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.2
Nitration (PA)	%	71	77	85	83
Sulfation (PA)	%	58	61	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	2	3
Sodium	ppm	2	3	5	6
Potassium	ppm	0	0	0	4

WEAR METALS

Iron	ppm	3	10	9	8
Copper	ppm	1	3	6	5
Lead	ppm	0	<1	2	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	<1	0	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	45	48	46
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	<1	2
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1098	1384	1608	1538
Magnesium	ppm	809	667	640	659
Zinc	ppm	881	1036	1129	1151
Phosphorus	ppm	673	882	1030	940
Barium	ppm	0	0	0	0
Boron	ppm	40	62	50	42

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: VP443016
Unique No: 10742644
Signed: Sean Felton
Report Date: 16 Nov 2023

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GRAPHS

